

# Panasonic

## Monitoring Software Digital Disk Recorder

## Operating Instructions

Model No. **WJ-RT416**



Before attempting to connect or operate this product,  
please read these instructions carefully and save this manual for future use.

# CONTENTS

Limitation of Liability .....	3	Other available operations when displaying	
Disclaimer of Warranty .....	3	live images .....	29
Preface .....	4	Frame display .....	29
About These Operating Instructions .....	4	Sequential display .....	31
System Requirements for a PC .....	5	Favorite Display .....	32
Trademarks and Registered Trademarks .....	5	Map display .....	33
Abbreviations .....	5	Recorder operation .....	34
Installation .....	6	Configuration of the settings of the recorder	
Uninstallation of the monitoring software .....	6	System Setup (Setup – System Setup) .....	34
Start the RT4Client .....	7	Recording/Event Setup (Setup – Recording/	
Operation window .....	7	Event Setup) .....	35
Image display area .....	7	Communication Setup (Setup – Communication	
Area selection buttons .....	7	Setup) .....	35
Multi-screen selection buttons .....	7	Check of each log of the recorder (Log) .....	37
Status display area .....	7	Check of the system information and disk	
Error/alarm display area .....	8	information of the recorder (Information) .....	37
Recorder control buttons .....	8	Start/stop of the manual recording using this	
System control buttons .....	8	software (Manual Rec. Control) .....	38
Time and date display area .....	9	Determination whether to enable or disable the	
Recorder information display area .....	9	alarm output from the AUDIO IN/ALARM OUT	
Configure the Network Settings .....	11	terminal on the rear of the recorder	
Configure the network settings of the recorder ....	11	(Alarm Output Control) .....	38
Configure the network settings of a PC .....	11	Reboot of the recorder (Maintenance – Reboot) ..	39
Settings relating to the connection with the		Download/upload of the setup data from/	
recorder .....	14	to the recorder Setup Data Download/Upload	
Monitor Live Images .....	15	(Maintenance – Setup Data Download/Upload) ...	39
Switch the image display area between a		Download/upload of the language data from/	
single screen and a multi-screen .....	16	to the recorder Language Data Download/Upload	
Check the status of the camera .....	16	(Maintenance – Language Data Download/	
Temporarily change color of text displayed		Upload) .....	40
in the image display area .....	17	Firmware update of the recorder Firmware	
Control the cameras .....	17	Update (Maintenance – Firmware Update) .....	41
Disconnect the connection with camera .....	17	Download recorded images from the recorder ....	42
Login to the recorder .....	18	Remote Talk .....	43
Play recorded images on the recorder .....	19	Configure the settings of the monitoring software	
Play recorded images from the search result window		(Monitor System Config) .....	44
displayed after searching with the designated		Recorder Setup (Monitor System Config –	
search filters (List Search Playback) .....	19	Recorder Setup) .....	44
Play recorded images from the search result		My Favorite Display Setup (Monitor System	
window displayed after searching by designating		Config – My Favorite Display Setup) .....	46
the start time of recording (Time & Date Search		Sequential Display Setup (Monitor System	
Playback) .....	21	Config – Sequential Display Setup) .....	47
Stop playback .....	23	Map Setup (Monitoring System Config –	
Control panel .....	24	Map Setup) .....	48
Display the control panel .....	24	Advanced Setup (Monitoring System Config –	
Close the control panel .....	24	Advanced Setup) .....	50
Save the image currently being displayed		Monitor System Version .....	51
on the PC .....	24	Language .....	51
Capture the images currently being displayed ....	25	Playback downloaded recorded images using the	
Muting audio .....	25	RT4Viewer .....	52
Display images from the camera on a		Start the RT4Viewer .....	52
full screen .....	25	Playback downloaded recorded images .....	54
Control the cameras .....	26	Search and play .....	55
Operations during playback .....	28	Alteration check .....	56
		Troubleshooting .....	57

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# Preface

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The Monitoring Software is the dedicated software that allows operation and configuration of the settings of Panasonic WJ-RT416 digital disk recorder (hereinafter referred to as recorders) connected to a network such as a LAN or the Internet using a PC.

The following models are described as "WJ-RT416" in these operating instructions.

- WJ-RT416K: No built-in HDD is provided
- WJ-RT416: Built-in HDD x1

The monitoring software consists of the following.

## **RT4Client**

The principal functions of the monitoring software can be operated using the RT4Client. To use the monitoring software, start the RT4Client first.

The following are the functions of the RT4Client.

- Displaying of live images from the cameras (normal display, frame display, sequential display)
- Control of the cameras (setup, operation)
- Playback of recorded images on the recorder
- Configuration of the settings of the recorder
- Operation of the recorder
- Reception of an event occurrence notification from the recorder and displaying of images recorded by the alarm recording
- Download of recorded images on the recorder
- Download of data from the recorder (log, language file, setup data)
- Upload of data to the recorder (language file, firmware, setup data)
- Remote talk

## **RT4Viewer**

Recorded images downloaded on the HDD of the PC can be played using the RT4Viewer. The RT4Viewer can start using the interface of the RT4Client.

The functions of the RT4Viewer:

- Playback of downloaded recorded images
- Alteration check of data

## About These Operating Instructions

There are 2 sets of operating instructions for the WJ-RT416 as follows.

- Operating Instructions (PDF) of the monitoring software (this document)
- Installation Guide (book)

These "Operating Instructions" contain descriptions of how to configure the required settings to operate the recorder and descriptions for how to operate the recorder using a PC via a network.

Refer to the "Installation Guide" for descriptions about installation/connection, and descriptions of how to operate the recorder using the buttons on the front panel of the recorder.

Adobe® Reader® is required to read these operating instructions (PDF) on the provided CD-ROM. When the Adobe® Reader is not installed on the PC, download the latest Adobe® Reader from the Adobe web site and install it.

The illustrations of the setup menus in these operating instructions are of the NTSC model.

# System Requirements for a PC

It is recommended to install this software on a PC that meets the following system requirements. If installing on a PC that does not meet the following system requirements, it may cause problems such as slow imaging or the software becomes inoperable.

OS	Microsoft® Windows® XP Professional SP2* Microsoft® Windows® XP Home Edition SP2* *: Tested and confirmed full compatibility with the English edition. Full compatibility with other language editions cannot be guaranteed.
Computer	IBM PC/AT Compatible
CPU	Pentium® 4 3.0 GHz or faster
Memory	512 MB or more
Graphic memory	256 MB or more
Display driver	Overlay compatible
Monitor	1 024 x 768 pixels or more, 24-bit True color or better
Network Interface	10/100 Mbps Network interface card must be installed
Others	DirectX 8.0a or later CD-ROM Drive: It is necessary to read the operating instructions and use the software on the provided CD-ROM. Adobe® Reader: It is necessary to read the operating instructions on the provided CD-ROM.

**Notes:**

- When the graphic memory is less than 32 MB, the monitoring software can access only four camera channels concurrently. (When the graphic memory is less than 64 MB, the monitoring software can access only six camera channels concurrently.)
- When the overlay control is not enabled for the display driver, the monitoring software may not start.
- The monitoring software may not start depending on the version of the display driver. In this case, upgrade the display driver to the latest version.

## Trademarks and Registered Trademarks

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- Other names of companies and products contained in these operating instructions may be trademarks or registered trademarks of their respective owners.

## Abbreviations

The following abbreviations are used in these operating instructions.  
Microsoft® Windows® XP Professional SP2 and Microsoft® Windows® XP Home Edition SP2 are described as Windows XP.

# Installation

## Step 1

Insert the provided CD-ROM into the CD-ROM drive of the PC.

## Step 2

Double-click "Setup.exe" on the CD-ROM.

→ The install program will be launched and the wizard will be displayed.

## Step 3

Install the software by following instructions displayed on the monitor.

Select the display language and the television system for "Language Type" in the process of the installation.

When starting installation after selecting the standard installation, a new folder will be created. (The directory path is "C:\Program Files\Panasonic\RT4 Monitoring Software".) When the installation is completed, the program will be added to the "Start" menu. The shortcut icon will also be created on the desktop.

---

### Important:

When using Windows® XP Professional or Home Edition SP2, the "Windows Security Alert" window may be possible to be displayed.

In this case, click the "Unblock" button on the displayed "Windows Security Alert" window. When clicked the "Block" button accidentally, do the following.

1. Click [Security Center] on the "Control Panel".
2. Click the [Exceptions] tab.
3. Check if the checkbox of the monitoring software is checked or not.

When the checkbox is checked, click the [OK] button.

Other applications and the security level may not be affected by these operations.

---

## Uninstallation of the monitoring software

### Step 1

Open "Add or Remove Programs" in "Control Panel".

→ The "Add or Remove Programs" window will be displayed.

### Step 2

Select "RT4 Monitoring Software", and then click the [Change/Remove] button.

The uninstall program will be launched and the wizard will be displayed.

# Start the RT4Client

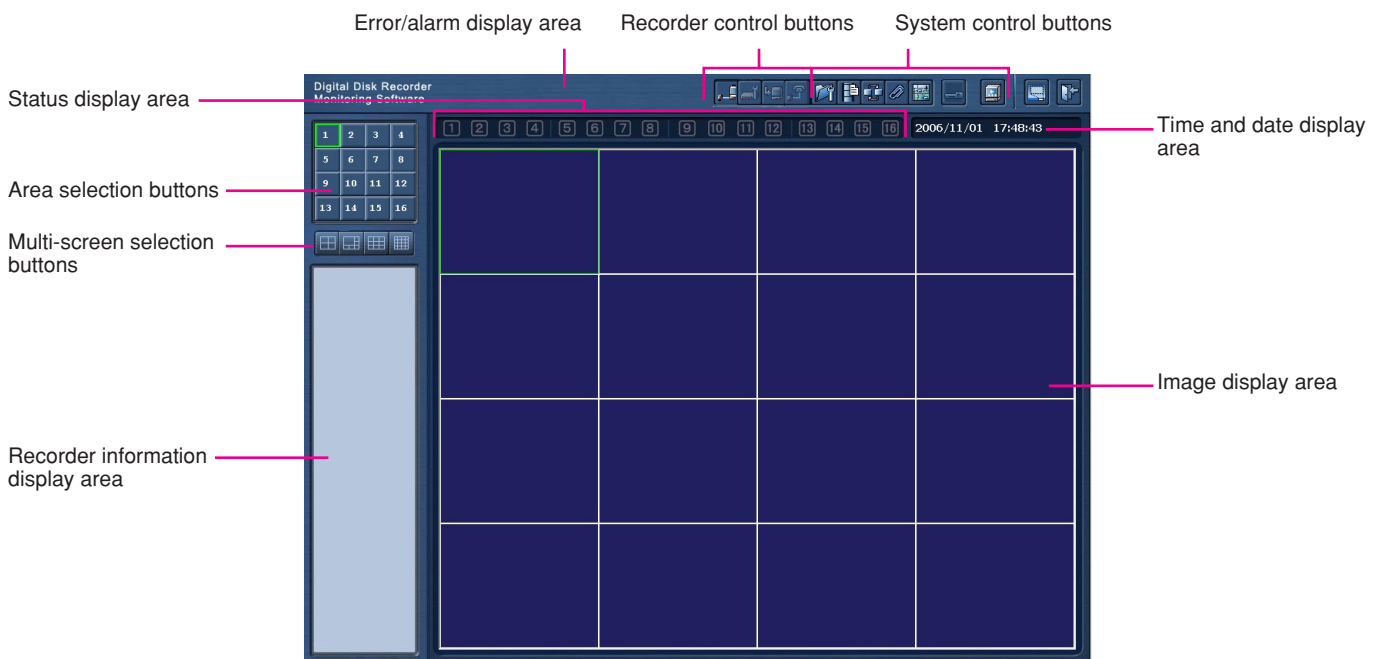
## Step 1

Select "RT4Client" from the "Start" menu ("Start" - "All Programs" - "Panasonic" - "RT4 Monitoring Software" - "RT4Client") or double-click the shortcut icon of the RT4Client on the desktop.

→ The monitoring software will start and the operation window will be displayed.

## Operation window

When starting the monitoring software, the operation window will be displayed.



### Image display area

Live images from the cameras and recorded images on the recorder will be displayed in this area. The area number is assigned as shown in the illustration below. The selected area will be displayed with a yellow frame.

1	2	3	4
5	6	7	8
9	10	11	12
13	14	15	16

### Area selection buttons

The clicked area will be displayed on a single screen. (☞ page 16)

### Multi-screen selection buttons

Click the desired multi-screen selection button. The selected multi-screen will be displayed in the image display area.

### Status display area

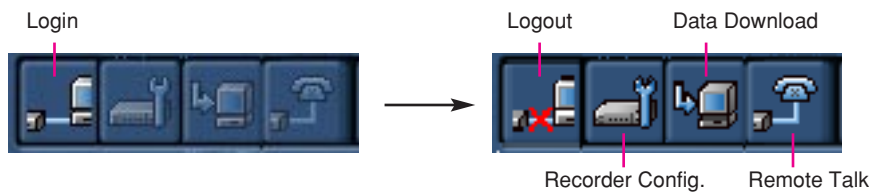
The status icons will be displayed to indicate the statuses of each area. Refer to page 16 for further information about the status icons.

## Error/alarm display area



The status of the current login recorder will be displayed with the error status icons and the alarm status icon. When the [ALM] icon is clicked, the alarm will be reset, and the displayed icon will disappear. Refer to the operating instructions of the recorder for further information about the alarm reset.

## Recorder control buttons



Login/logout the recorder, operation of the recorder, download of recorded images and remote talk between the PC and the recorder can be made using these buttons.

Some operations cannot be made if logged in the recorder not as "Manager". Refer to the installation guide for further information about the operation restriction differences between the user levels. Refer to page 18 for how to log in the recorder.

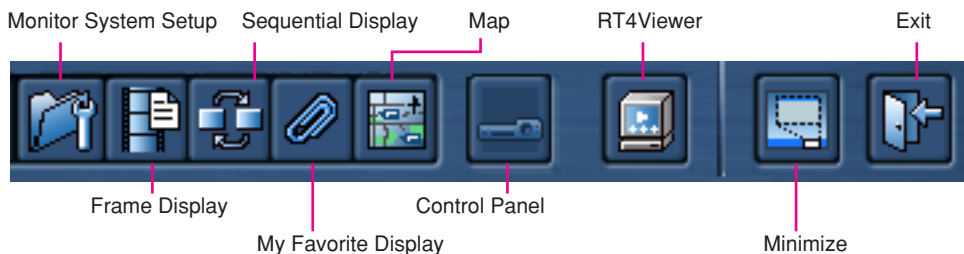
The following are available using the recorder control buttons.

- Login/logout (☞ page 18)
- Configurations of the recorder (☞ page 34)
- Download of recorded images (☞ page 42)
- Remote talk (start/end) (☞ page 43)

## System control buttons

Starting of each function of the monitoring software, displaying of the setup menu, etc. can be made using these buttons.

The following are available using the system control buttons.



- Configuration of the settings of the monitoring software (☞ page 44)
- Frame display (Function to display only I-Frame of MPEG-4 stream) (☞ page 29)
- Sequential display (Function to display images from a camera to camera sequentially at the interval set in advance) (☞ page 31)

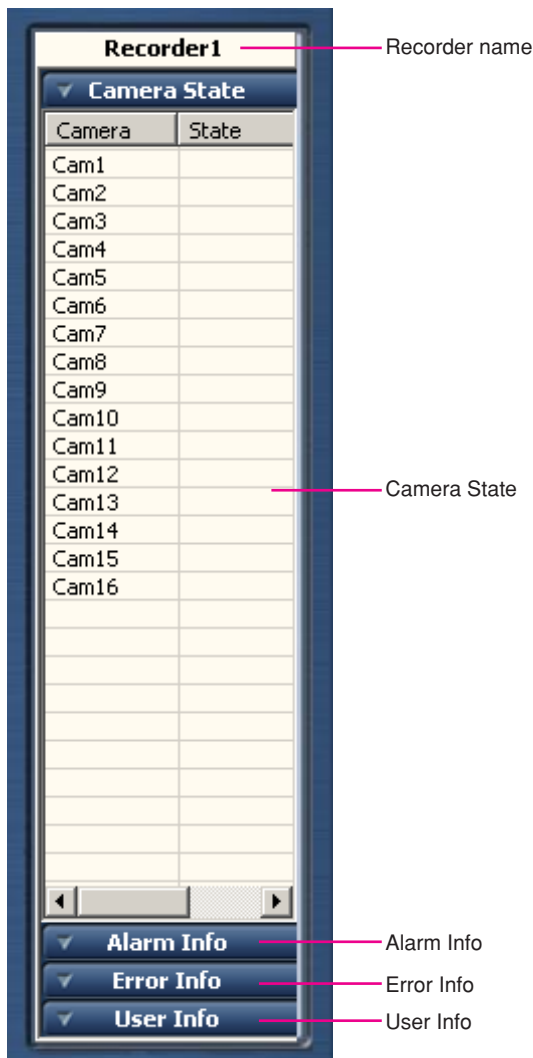
- Favorite display (Function to display images from the camera registered as a favorite in advance) (☞ page 32)
- Map display (Function to display images from the camera by clicking the camera icon on the map) (☞ page 33)
- Control panel (☞ page 24)
- RT4Viewer (☞ page 52)  
The viewer software (RT4Viewer) that can play recorded images downloaded onto the PC will start
- Minimize  
This software will be minimized to the system tray.
- Exiting of the software  
This software will be closed.

## Time and date display area

Time and date of the PC will be displayed.

## Recorder information display area

When logging in the recorder, the following recorder information will be displayed. Information of only one of the following (except the recorder name) can be displayed simultaneously. When the information title is clicked, the respective information will be displayed.



### Recorder name

Name of the current login recorder will be displayed.

### Camera State

The status of the camera connected to the current login recorder will be displayed.

- Camera (camera name)
- State (camera status)

**Blank:** No signal

**Live:** The recorder is not in the process of recording, or not connected to a network.

**Manual:** The recorder is in the process of the manual recording.

**Timer:** The recorder is in the process of the timer recording.

**Alarm:** The recorder is in the process of the alarm recording.

**Monitor:** The recorder is on a network.

**Manual + Monitor:** The recorder is in the process of the manual recording and is also on a network.

**Timer + Monitor:** The recorder is in the process of the timer recording and is also on a network.

**Alarm + Monitor:** The recorder is in the process of the alarm recording and is also on a network.

---

### Alarm Info

History of alarm occurrences (occurred after logging in the recorder only) of the current login recorder will be displayed.

The display style is the same as the display style of the alarm log of the recorder.

### Error Info

History of error occurrences (occurred after logging in the recorder only) of the current login recorder will be displayed.

The display style is the same as the display style of the error log of the recorder.

### User Info

User information of users who is currently accessing the recorder will be displayed.

- IP Address
- Type

**Monitor:** User is monitoring live images.

**Control:** User is being logged in the recorder using the monitoring software.

**Backup:** User is downloading recorded images from the recorder.

**Talk:** User is transmitting/receiving audio to/from the recorder.

**Frame:** User is displaying images with the frame display.

**Netplay:** User is playing recorded images on the recorder.

- User name
- Login time

# Configure the Network Settings

With the following network environment, it is not necessary to configure the network settings. It is possible to configure the settings or operate the recorder using the monitoring software after completing the connection.

IP Address: 192.168.0.2 - 192.168.0.249, 192.168.0.251 - 192.168.0.254

Subnet Mask: 255.255.255.0

Gateway Address: 192.168.0.1

When the network settings are different from the settings above, configure the network settings of the recorder and the PC.

## Configure the network settings of the recorder

Use the buttons on the front panel of the recorder to conform the network settings to the network environment of the PC.

Refer to the installation guide of the recorder for further information about the network settings (The "Configure the network settings [Network Setup]" section under the "Configure the settings relating to communication with other devices [Communication Setup]" chapter in the descriptions of "Setup Menu").

## Configure the network settings of a PC

Change the TCP/IP setting of the PC to conform to the settings of the recorder.

It is required to set the IP address of the PC to "192.168.0.XX (a number from 2 to 254 except 250)" to access the recorder.

### Screenshot 1

Start just after the PC is started up.



### Step 1

On the taskbar, click "Start", and then click the "Control Panel".

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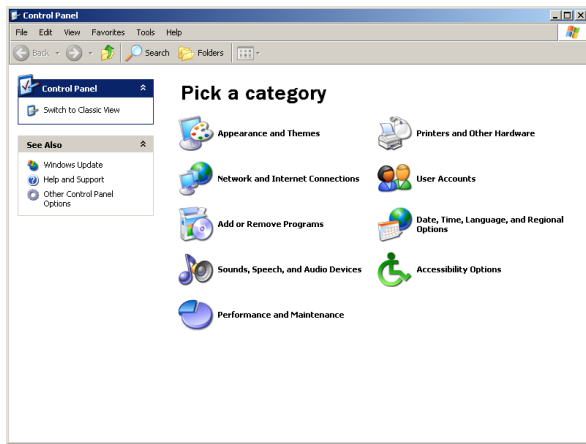
### Important:

Log in to the PC as an administrator.

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## Screenshot 2

The control panel will be displayed.

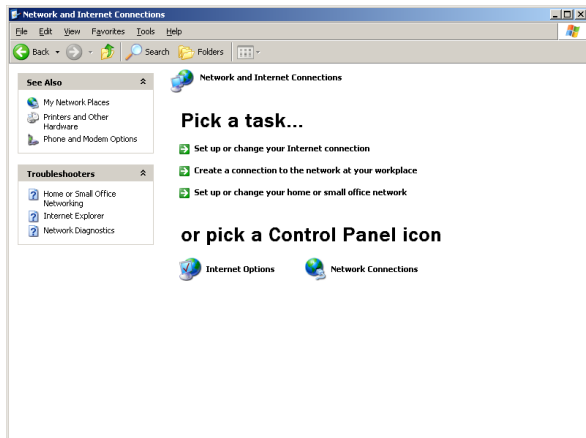


## Step 2

Click the "Network and Internet Connections" icon.

## Screenshot 3

The "Network and Internet Connections" window will be displayed.

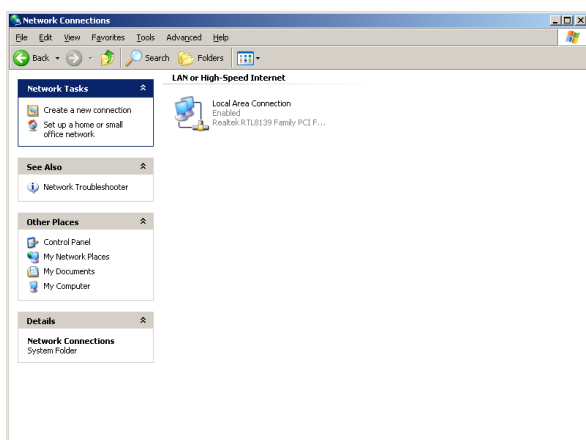


## Step 3

Click "Network Connections".

## Screenshot 4

The "Network Connections" window will be displayed.

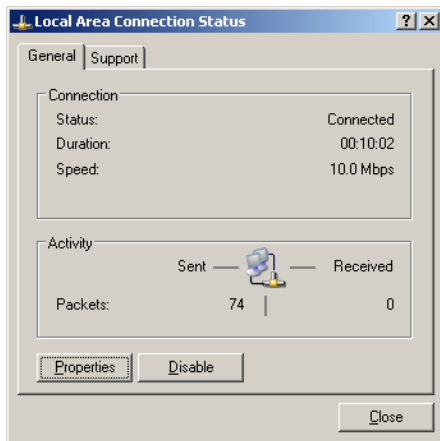


## Step 4

Double click "Local Area Connection".

### Screenshot 5

The "Local Area Connection Status" window will be displayed.

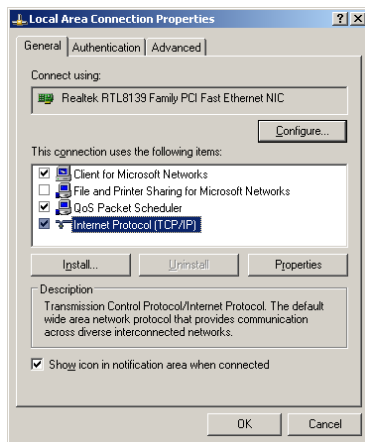


### Step 5

Click "Properties".

### Screenshot 6

The "Local Area Connection Properties" window will be displayed.

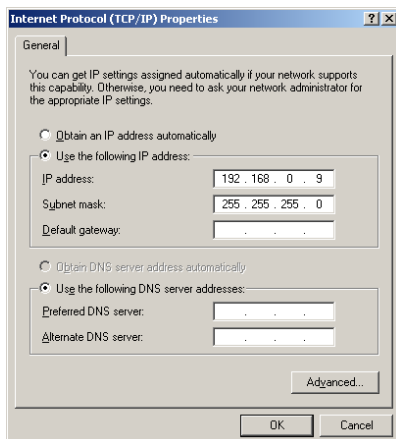


### Step 6

Click "Internet Protocol (TCP/IP)", and then click "Properties".

### Screenshot 7

The "Properties" window of "Internet Protocol (TCP/IP)" will be displayed.



### Step 7

Click "Use the following IP address" and enter the IP address and the subnet mask as follows;

- IP Address: 192.168.0.9
- Subnet Mask: 255.255.255.0

### Step 8

Click the "OK" button and close the window.

# Settings relating to the connection with the recorder

Before operating on the operation window, configure the network settings between the PC and the recorder.

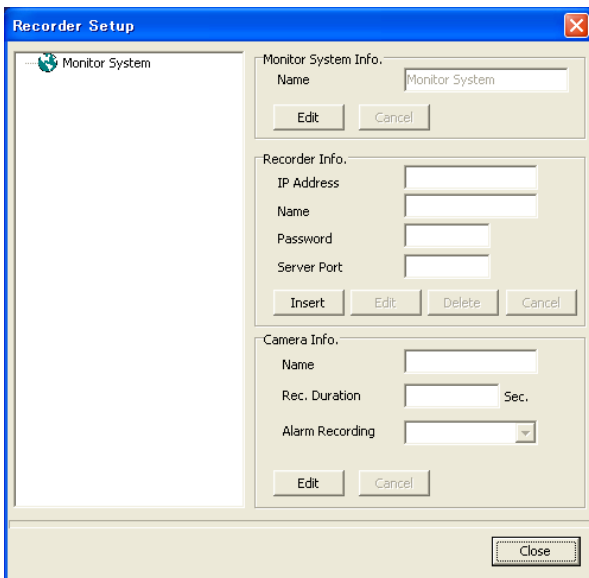
## Screenshot 1

Click the [Monitor System Setup] button.

The pop-up menu will be displayed.

Select "Recorder Setup" under "Monitor System Config".

The "Recorder Setup" window will be displayed.



## Step 1

Click the [Insert] button in the "Recorder Info." section, and then register the recorder information.

The password is arbitrary.

## Important:

Operable functions of the recorder vary depending on the user level. Depending on the settings of the recorder, it is possible to restrict users to monitor images from the cameras by setting the password of the user level "Viewer" or "Operator".

By setting the password of the user level "Viewer", it is possible to restrict users to operate the cameras. (Users whose user level is "Manager" can configure the settings of the cameras.)

The default password is different according to the user level as follows.

Manager1: 12345678

Operator1: 123456

Viewer1: 1234

## Notes:

- The default of "Server Port" of the recorder is "2000", and of "IP Address" is "192.168.0.250".
- Up to 12 characters can be entered for "Name".

## Step 2

Click the [OK] button.

## Step 3

Click the [Close] button.

## Note:

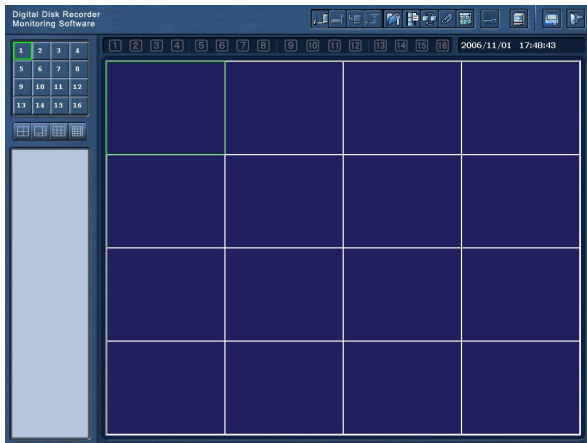
Refer to the installation guide of the recorder for further information about the connection works of the recorder and the PC.

# Monitor Live Images

It is possible to display live images on a single screen or a multi-screen in the image display area.  
To monitor live images from the cameras, select the desired camera connected to the recorder first.

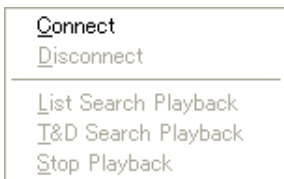
## Screenshot 1

Start operation when the operation window is being displayed.



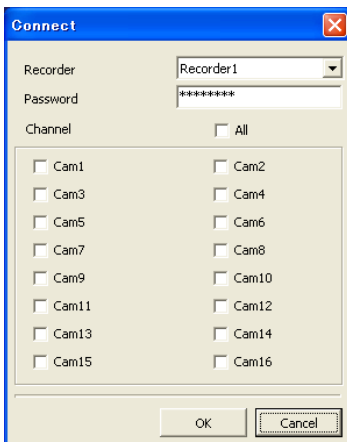
## Screenshot 2

The pop-up menu will be displayed.



## Screenshot 3

The "Connect" window will be displayed.



## Step 1

Right-click on a blank area in the image display area.

## Step 2

Select "Connect".

## Step 3

Select the recorder to access and the desired camera channel.

### Notes:

- Only the recorders registered in advance can be selected on the "Connect" window. Refer to page 14 for further information.
- The password registered when registered the recorder will be entered automatically.
- When displaying images from 5 or more camera channels of the same recorder, or when displaying recorded images in an area on a multi-screen, only I-frame will be displayed in all areas on a multi-screen and audio may not be heard.

#### Step 4

Click the [OK] button.

→ The connection status window will be displayed.

When the connection is established, images from the selected camera will be displayed in the selected area in the image display area.




## Switch the image display area between a single screen and a multi-screen

### Display images on a single screen in the image display area

Click the desired area selection button.

→ The selected area will be displayed on a single screen in the image display area. The image display area will be switched to a single screen by clicking one of the area selection buttons when a multi-screen is displayed in the image display area.

The area selection buttons will change as follows to indicate the current status.

- (a)  : This area is displayed in the image display area and currently selected.
- (b)  : This area is displayed in the image display area and currently not selected.
- (c)  : This area is not displayed in the image display area, or currently being used for the sequential display.

### Display images on a multi-screen in the image display area

Click the desired multi-screen selection button.

→ The selected multi-screen will be displayed in the image display area.

 (4-screen): Each time this button is clicked, the displayed area will change as follows.  
1 - 4 → 5 - 8 → 9 - 12 → 13 - 16 → 1 - 4 → ...


 (6-screen): Each time this button is clicked, the displayed area will change as follows.  
1 - 6 → 7 - 12 → 1 - 6 → 7 - 12...


 (9-screen): Areas 1 - 9 will be displayed in the image display area.

 (16-screen): Areas 1 - 16 will be displayed in the image display area.


## Check the status of the camera


The status of the camera respective to the area can be check with the displayed icon.

 (No icon): Displaying of live images or playback of recorded images are available in this area.

 : Live images from the camera are being displayed in this area. When this icon is blinking, images in the sequential display are being displayed in this area.

 : Recorded images are being played in this area.

 : The camera respective to this area is in the alarm status.

 : Live images or recorded images currently being displayed are being saved. When this icon is blinking, images are being recorded by the alarm recording. Refer to pages 44 and 45 for further information about the alarm recording.

## Temporarily change color of text displayed in the image display area

When right-clicking on the text displayed on the image display area, the pop-up menu will be displayed. Select "White", "Magenta" or "Bright Green" to change the color of the text temporarily.

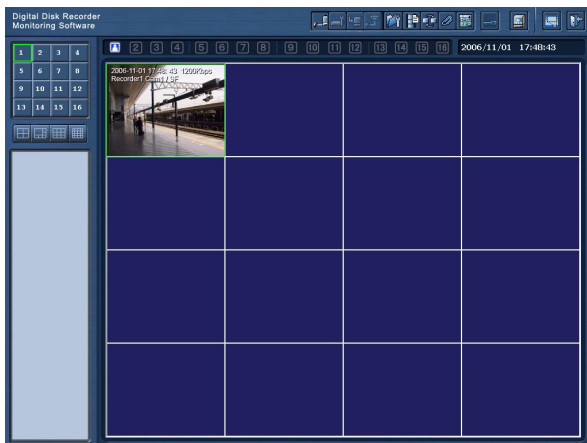
## Control the cameras

The camera from which images are being displayed in the image display area can be controlled using the control panel (page 24). When displaying images on a single screen or on a 4-screen, it is also possible to pan/tilt the camera by clicking on the image displayed in the image display area. Refer to page 26 for further information.

## Disconnect the connection with camera

### Screenshot 1

Start operation when the operation window is being displayed.

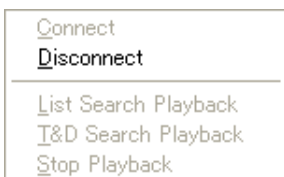


### Step 1

Right-click on the displayed image that is from the camera to be disconnected.

### Screenshot 2

The pop-up menu will be displayed.



### Step 2

Select "Disconnect".

→ The connection with the selected camera will be disconnected.

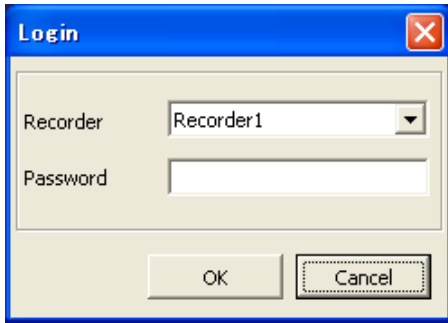
# Login to the recorder

Log in the recorder as follows.

## Screenshot 1

Click the [Login] button.

→ The "Login" window will be displayed.



### Important:

Depending of the firewall setting of Windows XP SP2, recorder information may sometimes not be displayed. Refer to page 6 for further information.

## Step 1

Select the desired recorder and enter the password of the user level "Manager".

### Note:



Only the recorders registered in advance can be selected on the "Login" window. Refer to page 14 for further information.

## Step 2

Click the [OK] button.

→ The connection status window will be displayed.

When the connection is established, the recorder information (page 9) will be displayed on the left side of the operation window.

The [Login] button  on the operation window will also change to the [Logout] button . Click this button to log out of the recorder.

# Play recorded images on the recorder

Recorded images can be played from the search result window. It is possible to search recorded images to be played by designating multiple search filters (List Search) or by designating the start time and date of recording (Time & Date Search).

To play recorded images, log in the recorder as "Manager". Refer to page 18 for how to log in the recorder.

---

## Important:

It is impossible to play recorded images which is currently being played or copied on the recorder.

---

## Note:

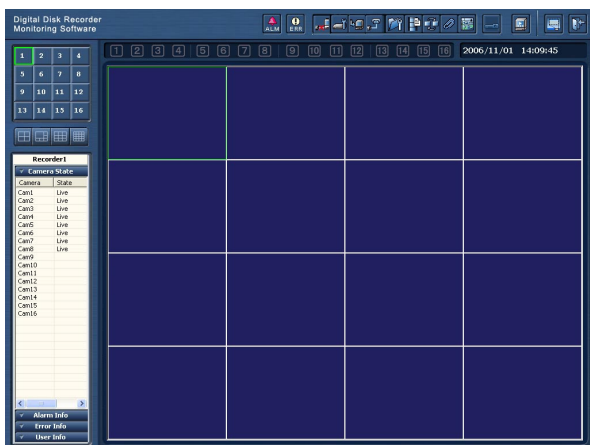
When displaying images from 5 or more camera channels of the same recorder, or when displaying recorded images in an area on a multi-screen, only I-frame will be displayed in all areas on a multi-screen (audio may not be heard when displaying live images).

---

## Play recorded images from the search result window displayed after searching with the designated search filters (List Search Playback)

### Screenshot 1

Start operation when the operation window is being displayed.

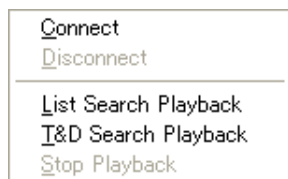


### Step 1

Right-click on a blank area in the image display area.

### Screenshot 2

The pop-up menu will be displayed.

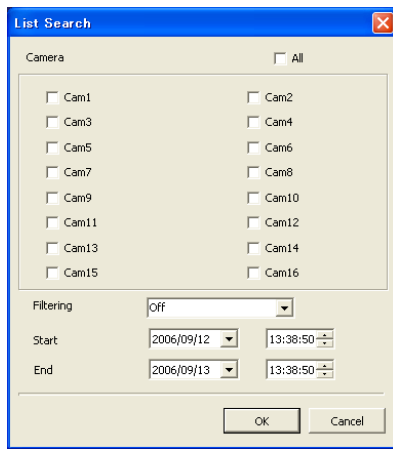


### Step 2

Select "List Search Playback".

### Screenshot 3

The "List Search" window will be displayed.



### Step 3

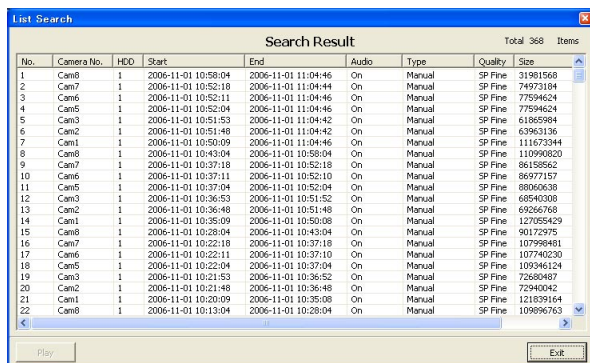
Set the desired search filter.

#### Camera

Check the radio button of the desired camera channel to be searched.

### Screenshot 4

The search result window will be displayed.



### Filtering

- Off: Searches without filtering
- Manual: Searches for only images recorded by the manual recording
- Timer: Searches for only images recorded by the timer recording
- Alarm: Searches for only images recorded by the alarm recording (triggered by a terminal input, VMD and a command alarm reception)
- Terminal: Searches for only images recorded by the alarm recording triggered by a terminal input
- VMD: Searches for only images recorded by the alarm recording triggered by VMD
- Com: Searches for only images recorded by the alarm recording triggered by a command alarm reception

### Start/End

Designate the time period to be searched by entering the start and end time and date.

### Step 4

When the search filters are set, click the [OK] button.

### Step 5

Select the desired recorded images to be played.

#### Note:

It is possible to select multiple search results by clicking them while pressing the [Ctrl] key on the keyboard.

### Step 6

Click the [Play] button.

→ Playback of the selected recorded images will start in the area selected in step 1.

Refer to page 28 for how to perform playback operations using the control panel.

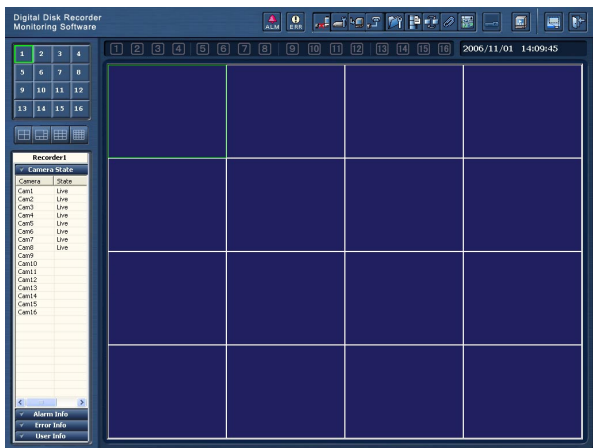
#### Note:

The latest 5 000 recorded images will be displayed in the list form.

Play recorded images from the search result window displayed after searching by designating the start time of recording (Time & Date Search Playback)

Screenshot 1

Start operation when the operation window is being displayed.

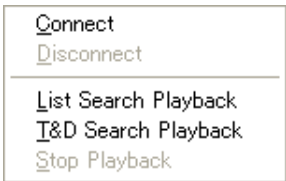


Step 1

Right-click on a blank area in the image display area.

Screenshot 2

The pop-up menu will be displayed.

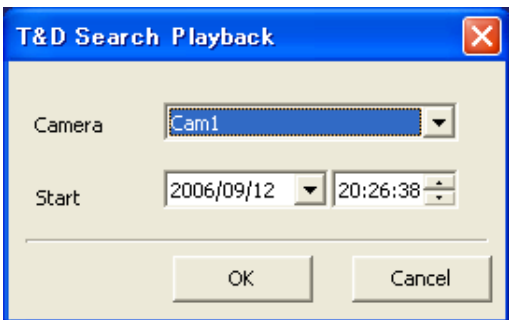


Step 2

Select "T&D Search Playback".

Screenshot 3

The "T&D Search Playback" window will be displayed.



Step 3

Set the following items.

Camera

Select the desired camera to be searched.

Start

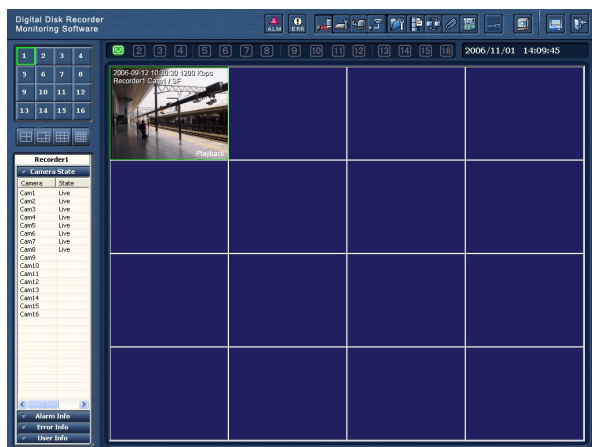
Enter the start time and date for the search.

Step 4

When completing the settings, click the [OK] button.

#### Screenshot 4

Playback of images recorded in the designated time and date will start in the area select in step 1.



#### Notes:

- When no recorded image was found at the designated time and date, playback will start from the next record.
- When there is no recorded image at all, playback will not start.

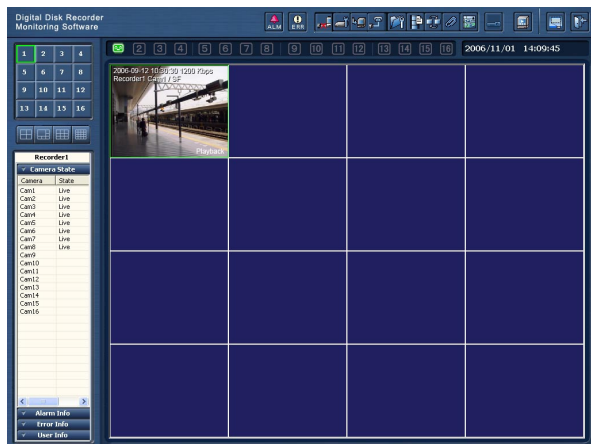
Operations during playback can be made using the control panel. Refer to page 28 for further information.

## Stop playback

When playback is stopped, the connection with the recorder will also be disconnected.

### Screenshot 1

Start operation when the operation window is being displayed.



### Step 1

Right-click on the area where recorded images are being played.

### Screenshot 2

The pop-up menu will be displayed.



### Step 2

Select "Stop Playback".  
→ Playback will stop and the connection with the recorder will be disconnected.

# Control panel

Control of the camera such as panning/tilting, saving an image, image capturing and operation of the setup menu of the camera can be made using the control panel. Operation during playback of recorded images can also be made using the control panel.

---

**Note:**

The following operations can be made both when displaying live images and when playing recorded images.

- Saving an image on the PC
  - Capturing of images from the camera
  - Muting audio
  - Displaying of images from the camera on a full screen
- 

## Display the control panel

When the [Control Panel] button is clicked, the control panel will be displayed.

When displaying on a full screen, right-click on the screen and select "Control Panel" from the pop-up menu.



## Close the control panel

Click the [X] button at the right top of the control panel or click on somewhere out of the selected area.

→ The control panel will be closed.


## Save the image currently being displayed on the PC

Click the [Real Time Save] button .

→ The image currently displayed will be saved.

The [Real Time Save] button will change as follows to indicate the current status.

 : The [Real Time Save] button is operable.

 : In the process of saving of the image.

 : The [Real Time Save] button is inoperable.

The saved image will be stored the "Mpeg" folder in the directory selected in the "Choose Directory" section on the "Advanced Setup" window.


The "Advanced Setup" window can be displayed by selecting "Advanced Setup" under "Monitor System Config" from the pop-up menu displayed when the [Monitor System Setup] button is clicked.

---



**Notes:**

- When the file size of the saved image is more than 500 MB, the file will be automatically divided into several files.
  - It is impossible to save the image while playback is being stopped or paused.
  - When this software starts the alarm recording during saving a file, the file saving will be cancelled automatically.
  - Depending on the timing to start saving images, the first several seconds of the saved image may not be played on the RT4Viewer.
- 

## Capture the images currently being displayed

When the [Capture] button  is clicked, the image currently being displayed will be captured as a still picture and saved.

The [Capture] button will change as follows to indicate the current status.

-  : The [Capture] button is operable.  
 : The [Capture] button is inoperable.

The captured image will be stored the "Picture" folder in the directory selected in the "Choose Directory" section on the "Advanced Setup" window.

The "Advanced Setup" window can be displayed by selecting "Advanced Setup" under "Monitor System Config" from the pop-up menu displayed when the [Monitor System Setup] button is clicked.


---

**Note:**



It is impossible to capture the recorded image when playback is being stopped.

---


## Muting audio

When the [Mute] button  is clicked, audio will be muted.

The [Mute] button will change as follows to indicate the current status.

-  : Audio is not muted.  
 : Audio is being muted.

## Display images from the camera on a full screen

When the [Full Screen] button  is clicked, the images currently being displayed will be displayed on a full screen. When clicking the [Full Screen] button while displaying images on a 4-screen the 4-screen will be enlarged to fit to the screen. When clicking the [Full Screen] button while displaying images on a single screen or on a multi-screen except 4-screen, the selected area will be displayed on a single screen and be enlarged to fit to the screen. To return to the previous size, click the [Full Screen] button again or press the [Esc] button on the keyboard.

## Control the cameras

It is possible to operate the camera while displaying images.

---

### Note:

To control the camera, configure the settings such as the communication type between the camera and the recorder, protocol, etc. Refer to the installation guide of the recorder for how to configure the required settings of the recorder.

Refer to the operating instructions of the camera for how to configure the required settings of the camera.

Depending on the models of the connected cameras, it may be impossible to control the camera or some functions may be not available.

---

### Panning/tilting, zooming, focusing, preset position operation

Click the buttons on the right side of the control panel to control the camera.



Panning/tilting: Moves the camera horizontally (◀▶)/vertically (▼▲)

Zooming: Zooms in/out of images (+: TELE, -: WIDE)

Focusing: Adjusts the focus (+: FAR, -: NEAR)

AF: Adjusts the focus automatically

Preset position: Moves the camera to the preset position registered in advance

---

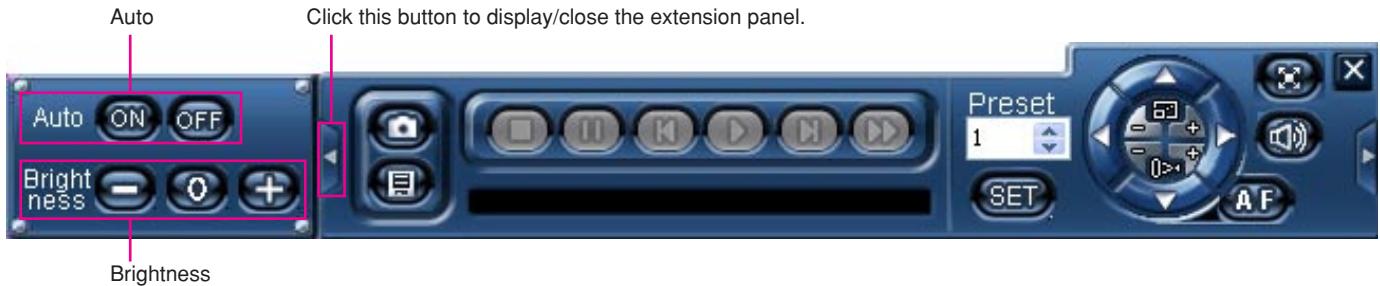
### Notes:

- When "Home" is selected for "Preset position", the camera will move to the home position (only when controlling Panasonic's camera). Refer to the operating instructions of the camera for how to configure the related settings.
  - It is also possible to pan/tilt the camera by clicking on the image displayed in the image display area (only when displaying images from Panasonic's camera on a single screen or on a 4-screen). The camera moves to position the clicked point as the center point of its image.
-

## Brightness, auto function

When the [◀] button is clicked, the extension panel with the buttons will be displayed on the left side of the control panel.

Brightness and auto function can be operated with these buttons. To close the displayed extension panel, click the [▶] button again.



Brightness: Adjusts the iris of the lens

Auto: Moves the camera with an auto function set in advance

## Operation of the setup menu of the camera

When the [▶] button is clicked, the extension panel with the buttons will be displayed on the right side of the control panel.

Operation of the setup menu of the camera is available with these buttons. To close the displayed extension panel and the setup menu of the camera, click the [▶] button again.



SET: Determines the setting, moves to the submenu

ESC: Moves to the parent page

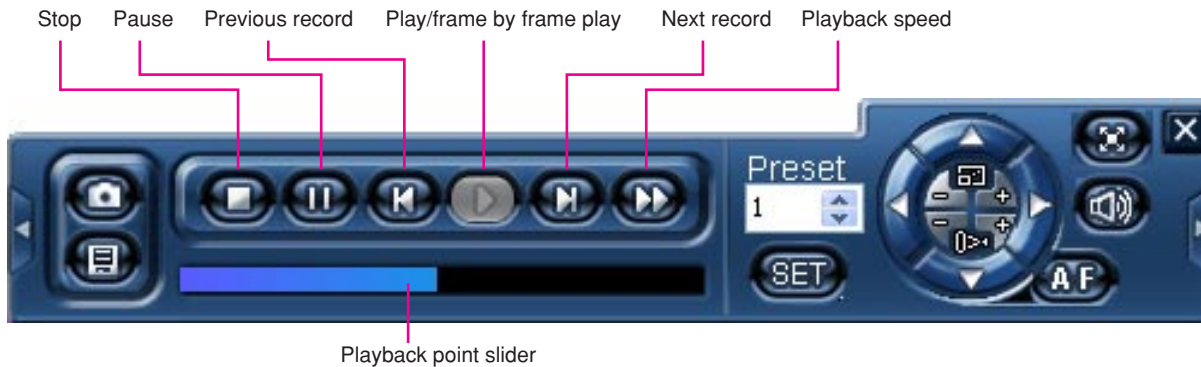
▼▲◀▶: Moves the cursor, changes the parameter

Reset: Displays the special menu (Refer to the operating instructions of the camera in use for further information about the special menu.)

All Reset: Resets the settings of the setup menu of the camera to the default

## Operations during playback

Operations during playback can be made using the control panel (☞ page 24).



[Stop] button:

Click this button to stop playback.

[Pause] button:

Click this button to pause playback. Click this button again to release pausing and resume the playback.

[Previous record] button:

It is possible to select the previous record by clicking this button when multiple results have been selected on the search result window.

[Play/frame by frame play] button:

Click this button to start playback. When this button is clicked during pausing, the next frame will be displayed.

[Next record] button:

It is possible to select the next record by clicking this button when multiple results have been selected on the search result window.

[Playback speed] button:

Playback speed will change in the following order each time the fast playback button is clicked:

1x → 2x → 4x → 1/4x → 1/2x → 1x → 2x ...

Playback point slider:

The current playback point will be indicated by the pointer. It is possible to designate a playback point by clicking the desired playback point.

# Other available operations when displaying live images

When displaying live images, the following display functions are available.

- Frame display
- Sequential display
- Favorite display
- Map display

These display function can be started by clicking the respective button of the system control buttons.

## Frame display

Live images from the camera will be displayed in the frame play. Display interval can be set by configuring "I Frame Interval" on the "Common Setup" tab of the "Recording/Event Setup" window (☞ page 35).

The default of "I Frame Interval" is "4". (The frame display switches the displayed image at 4 seconds interval.)

---

### Important:

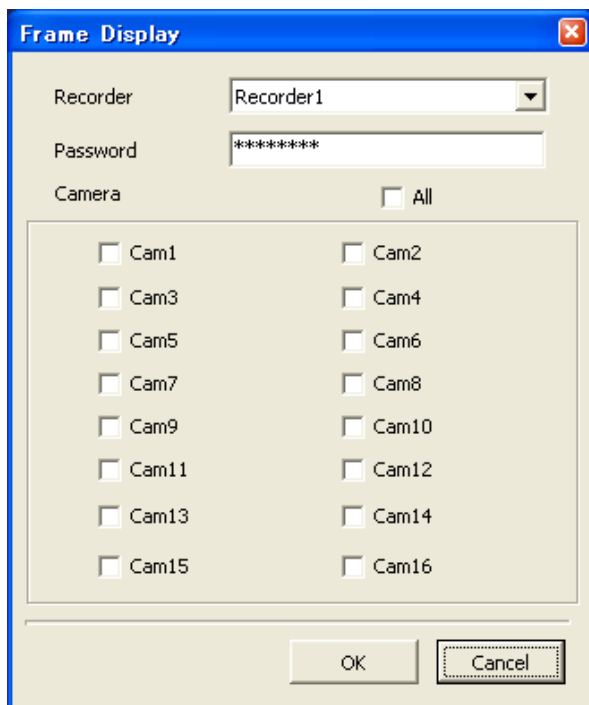
When the value set for "I Frame Interval" is changed, it also affects recording.

---

### Screenshot 1

Click the [Frame display] button.

→ The "Frame Display" window will be displayed.



### Step 1

Select the desired recorder and the cameras, and then click the [OK] button.

The password registered when registered the recorder will be entered automatically.

---

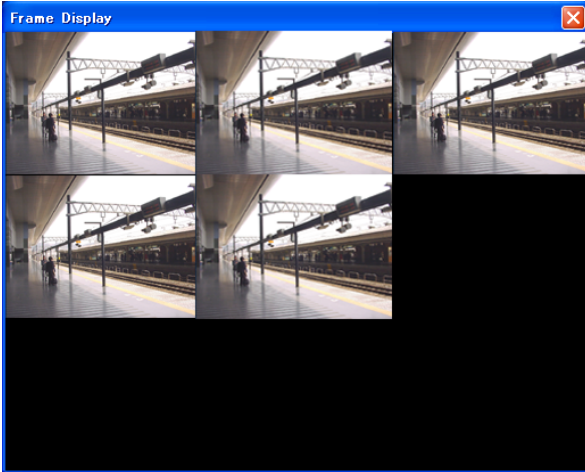
### Note:

Only the recorders registered in advance can be selected on the "Frame Display" window. Refer to page 14 for further information.

---

### Screenshot 2

The frame display will start.



### Step 2

Number of areas in the image display area will change depending on a number of the selected cameras.

Number of the selected cameras	Image display
1	Single screen
2 - 4	4-screen
5 - 9	9-screen
10 - 16	16-screen

When right-clicking on the displayed image, the following pop-up menu will be displayed.

Stop Frame Display  
Full Screen  
Default Screen

- Stop Frame Display: Stops the frame display
- Full Screen: Display the selected image on a full screen
- Default Screen: Returns to the multi-screen from the full screen display

### Step 3

To exit from the frame display, click the [x] button at the right top of the window.

#### Notes:

- When 5 cameras are selected, the frame display will start on a 9-screen as shown is the image of "Screenshot 2".
- When the resolution setting (Field/SIF) for the selected cameras are set differently, frame display works only for the cameras whose resolution setting is the same as one for the youngest camera number.

When the selected cameras and their resolution settings are as table 1 below, "Cam 1" and "Cam 4" are available for the frame display since the resolution setting of "Cam 4" is same as of the youngest camera number "Cam 1".

Camera number	Resolution
Cam 1	Field
Cam 2	SIF
Cam 3	SIF
Cam 4	Field

## Sequential display

The displayed images from multiple cameras will be switched automatically.

To start the sequential display, configure the settings relating to the sequential display in advance. Refer to page 47 for how to configure the settings relating to the sequential display.

### Screenshot 1

When clicking the [Sequential display] button, the pop-up menu will be displayed.

Normal Sequential Display
My Favorite Sequential Display

### Step 1

Select "Normal Sequential Display" or "My Favorite Sequential Display".

#### Important:

When images are currently being displayed, disconnect all the connections.

When it is necessary to disconnect all the connections to continue operation, the message window will be displayed.

Click the [OK] button to disconnect all the connection to continue operation.

### Screenshot 2

The password entry window will be displayed.

Recorder	Password
Recorder1	*****

OK Cancel



### Step 2

The password registered when registered the recorder will be entered automatically.

Click the [OK] button.

→ The sequential display will start.

### Step 3

To stop the sequential display, click the [Stop sequential display] button. When the sequential display starts, the [Sequential display] button  will change to the [Stop sequential display] button .

#### Important:

- When the alarm recording starts during the sequential display, the sequential display will stop. The sequential display will start when the alarm recording ends.
- The sequential display will stop when an error occurs in the connection between the recorder and the PC.
- Other functions, such as the frame display and switching of the image display area, are unavailable during the sequence display.

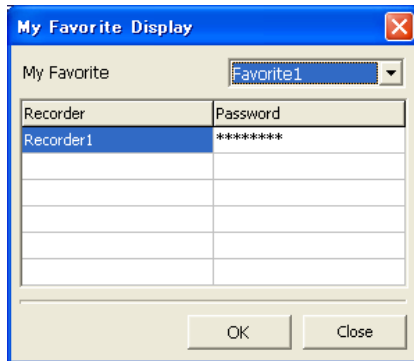
## Favorite Display

It is possible to register a camera channel as a "favorite" and assign it to the desired area.  
Refer to page 46 for how to register a camera channel as a "favorite".

### Screenshot 1

Click the [My Favorite Display] button.

→ The "My Favorite Display" window will be displayed.



### Step 1

Select the desired "favorite", and then click the [OK] button.

The password registered when registered the recorder will be entered automatically.

→ Images from the registered camera channel as "favorite" will be displayed in the assigned area.

---

### Important:

- When images are currently being displayed, disconnect all the connections.  
Click the [OK] button to disconnect all the connection to continue operation.
  - When the camera of which the camera channel registered as a favorite is not connected, images may not be displayed as configured on the "My Favorite Display Setup" window.
-

## Map display

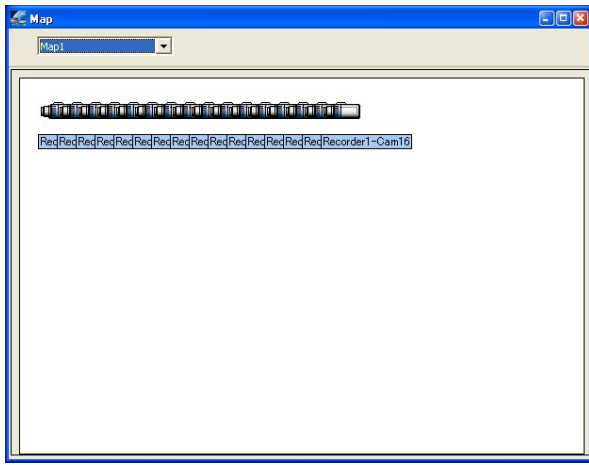
It is possible to display the diagram of the camera location arrangement (map). Camera connection can be established on the map.

Configure the settings relating to the map display in advance (☞ page 48).

### Screenshot 1


Click the [Map] button.


→ The "Map" window will be displayed.




### Step 1

The camera icons will be displayed in the "Map" window.


 indicates the camera that is available for live image monitoring.

 indicates the camera that is not available for live image monitoring. (Not connected)

When clicking on , the pop-up menu will be displayed. When selecting "Connect" from the pop-up menu, the connection window will be displayed.

Enter the password, and then click the [OK] button.

→ Connection with the selected camera will be established and live image monitoring will become available.

When clicking on  and selecting "Disconnect" from the displayed pop-up menu, live image monitoring will become unavailable.

Other map can be selected from the pull-down menu.

### Step 2

To exit from the map display, click the [×] button at the right top of the "Map" window.

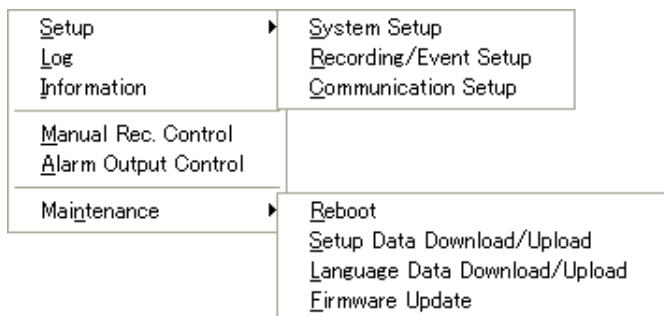
# Recorder operation

The following operations of the recorder are available using this software.

- Configuration of the settings of the recorder
- Check of each log of the recorder
- Check of the system information and disk information of the recorder
- Start/stop of the manual recording using this software
- Determination whether to enable or disable the alarm output from the AUDIO IN/ALARM OUT terminal on the rear of the recorder
- Reboot of the recorder
- Download/upload of the setup data from/to the recorder
- Download/upload of the language data from/to the recorder
- Firmware update of the recorder

To operate the recorder, log in the recorder first. (☞ page 18)

When clicking the [Recorder Config.] button, the pop-up menu will be displayed.



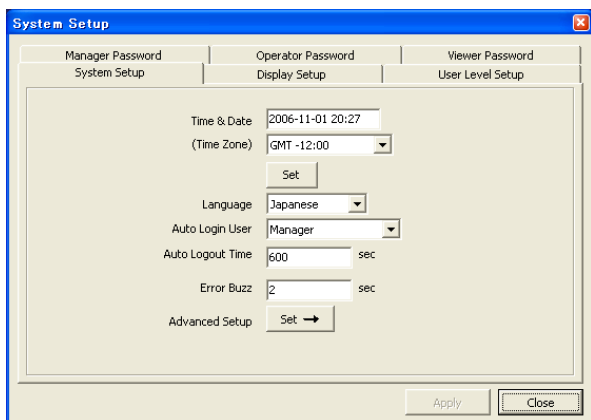
## Configuration of the settings of the recorder System Setup (Setup – System Setup)

Configure the basic settings relating the system of the recorder.

### Screenshot 1

Select "System Setup" under "Setup" from the pop-up menu.

→ The "System Setup" window will be displayed.



### Step 1

The setup items on the "System Setup" window are the same as the items on the setup menu ("System Setup", "Display Setup", "User Level Setup", "Manager Password", "Operator Password" and "Viewer Password") of the recorder.

Refer to the installation guide of the recorder for further information about the setup items.

### Notes:

- The camera title (up to 10 characters) can be set on the "Display Setup" tab.
- The camera title should be named in the language selected for "Language" on the "System Setup" tab.

### Step 2

When completing the settings, click the [Apply] button.

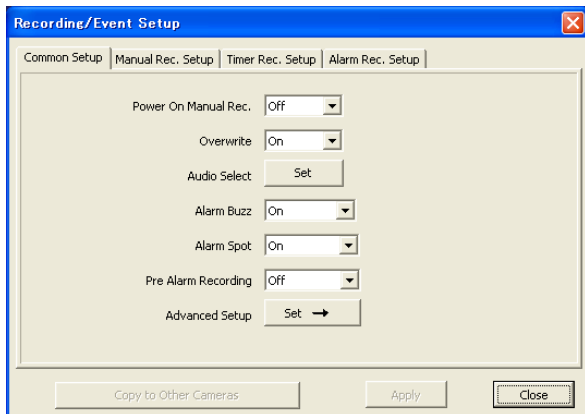
## Recording/Event Setup (Setup – Recording/Event Setup)

Configure the basic settings relating recordings and the event action of the recorder.

### Screenshot 1

Select "Recording/Event Setup" under "Setup" from the pop-up menu.

→ The "Recording/Event Setup" window will be displayed.



### Step 1

The setup items on the "Recording/Event Setup" window are the same as the items on the setup menu ("Recording Setup" and "Event Setup") of the recorder. Refer to the installation guide of the recorder for further information about the setup items.

### Step 2

When completing the settings, click the [Apply] button.

#### Note:

To copy and apply the configured settings to all camera channels, click the [Apply] button after clicking the [Copy to all camera channels] button. The settings to be copied vary according to the settings. Refer to the installation guide of the recorder for further information.

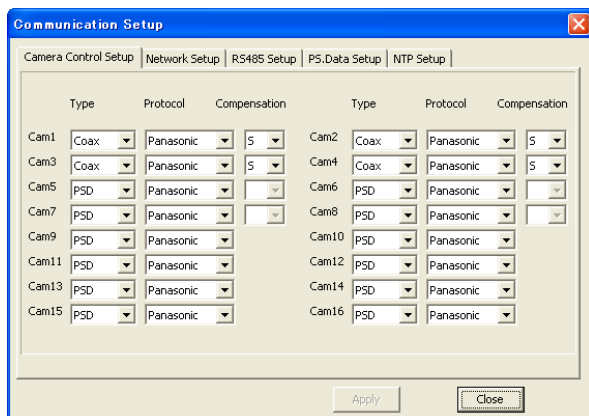
## Communication Setup (Setup – Communication Setup)

Configure the basic network settings of the recorder.

### Screenshot 1

Select "Communication Setup" under "Setup" (page 34) from the pop-up menu.

→ The "Communication Setup" window will be displayed.



### Step 1

The setup items except the settings on the [NTP Setup] tab on the "Communication Setup" window are the same as the items on the setup menu ("Camera Control Setup", "Network Setup" and "RS485 Setup") of the recorder. Refer to the installation guide of the recorder for further information about the setup items. Refer to the following for how to configure the settings on the [NTP Setup] tab.

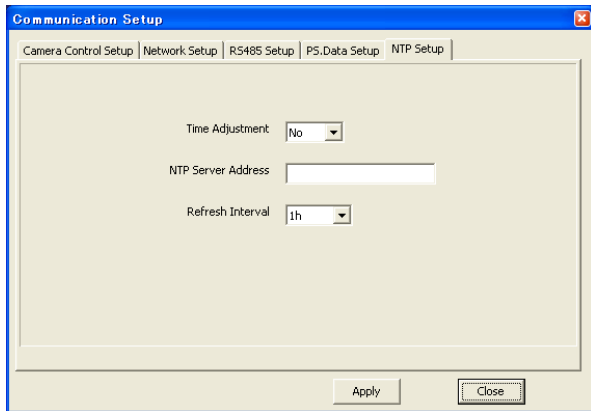
### Step 2

When completing the settings, click the [Apply] button.

#### Note:

- The setting of compensation (cable loss) will be ignored when receiving any alarm from cameras during communication setup.
- When the compensation is not set to "S", stop recording before changing the settings.

## [NTP Setup] tab



The screenshot shows a window titled "Communication Setup" with a tabbed interface. The "NTP Setup" tab is selected. Inside the tab, there are three settings: "Time Adjustment" with a dropdown menu showing "No", "NTP Server Address" with a text input field, and "Refresh Interval" with a dropdown menu showing "1h". At the bottom of the window are "Apply" and "Close" buttons.

### ■ Time Adjustment

Select "On" or "Off" to determine whether or not to adjust time by synchronizing with the NTP server.

**Default:** Off

### ■ NTP Server Address

Enter the NTP server IP address when "On" is selected for "NTP Synchronization".

Enter up to 128 alphanumeric characters (including hyphens (-), periods (.) and underscores (\_)).

### ■ Refresh Interval

Select an interval of time inquiry to the NTP server from the following.

1h, 2h, 6h, 12h, 24h

**Default:** 1h

## Check of each log of the recorder (Log)

It is possible to check the alarm log, error log, operation log and access log of the recorder.

The contents of each log are the same as the contents that can be checked by operating the recorder directly.

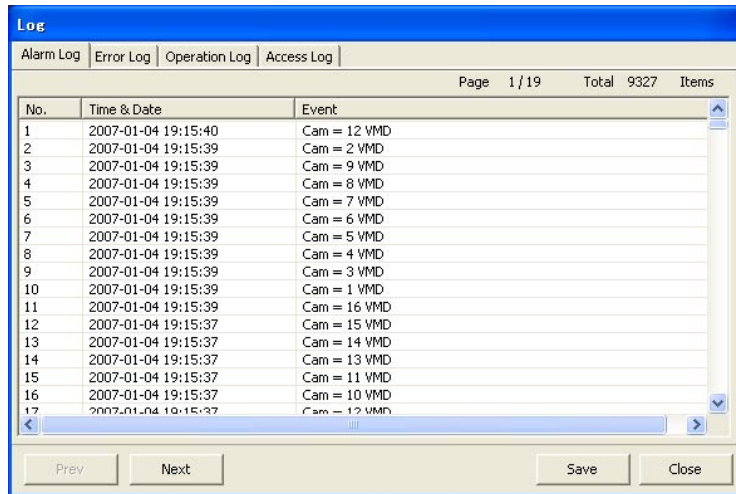
Refer to the installation guide of the recorder for further information.

It is also possible to save each log on the PC in the CSV format by clicking the [Save] button.

Select "Log" (☰ page 34) from the pop-up menu.

→ The "Log" window will be displayed.

Check the desired log on this window.



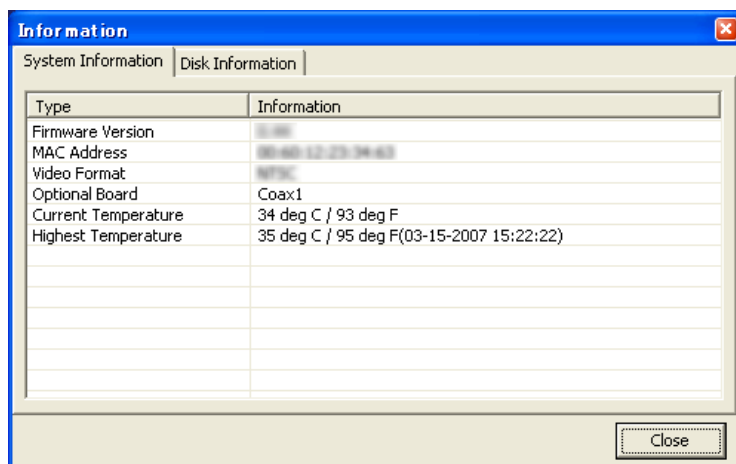
## Check of the system information and disk information of the recorder (Information)

It is possible to check the system information and the disk information of the recorder.

Select "Information" (☰ page 34) from the pop-up menu.

→ The "Information" window will be displayed.

Check the desired information on this window.



## Start/stop of the manual recording using this software (Manual Rec. Control)

It is possible to start and stop the manual recording using this software.

### Screenshot 1

Select "Manual Rec. Control" (☞ page 34) from the pop-up menu.

→ The "Manual Rec. Control" window will be displayed.



### Step 1

Select "On" or "Off" to start or stop the manual recording.

On: Starts the manual recording using this software.

Off: Stops the manual recording using this software.

### Step 2

Click the [Apply] button.

→ The selected operation will be carried out.

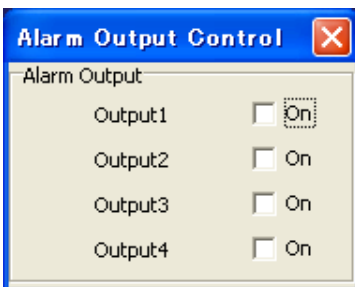
## Determination whether to enable or disable the alarm output from the AUDIO IN/ALARM OUT terminal on the rear of the recorder (Alarm Output Control)

It is possible to determine whether to enable or disable the alarm output from the AUDIO IN/ALARM OUT terminal on the rear of the recorder.

### Screenshot 1

Select "Alarm Output Control" (☞ page 34) from the pop-up menu.

→ The "Alarm Output Control" window will be displayed.



### Step 1

Check the desired checkbox respective to the terminal from which the alarm output signal is to be output.

Uncheck the checkbox to stop outputting the alarm output signal.

### Step 2

To close from the "Alarm Output Control" window, click the [X] button at the right top of the window.

## Reboot of the recorder (Maintenance – Reboot)

Select "Reboot" under "Maintenance" from the pop-up menu (☰ page 34).

→ The confirmation window will be displayed.

When the [OK] button on the confirmation window is clicked, the reconfirm window will be displayed. Click the [OK] button on the reconfirm window to reboot the recorder. Connect to the recorder again after the reboot since the connection between the recorder and the PC will be disconnected in the process of the reboot.

---

### Important:

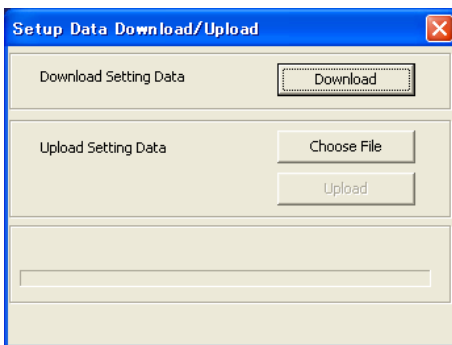
Before rebooting the recorder, make sure that the recorder is not in the process of recording, playback and copying.

---

## Download/upload of the setup data from/to the recorder Setup Data Download/Upload (Maintenance – Setup Data Download/Upload)

Select "Setup Data Download/Upload" under "Maintenance" from the pop-up menu (☰ page 34).

→ The "Setup Data Download/Upload" window will be displayed.



### Download the setup data

#### Step 1

Click the [Download] button.

→ The "Save..." window will be displayed.

#### Step 2

Designate the directory in which the setup data is to be downloaded (default name: RT4Set.bin), and then click the [Save] button.

→ Download of the setup data will start.

### Upload the setup data

#### Step 1

Click the [Choose File] button, and then select the setup data to be uploaded.

#### Step 2

Click the [Upload] button.

→ Upload of the setup data will start.

---

### Note:

The settings on the [Network setup] tab of the "Communication Setup" window will not be overwritten even when the setup data is uploaded.

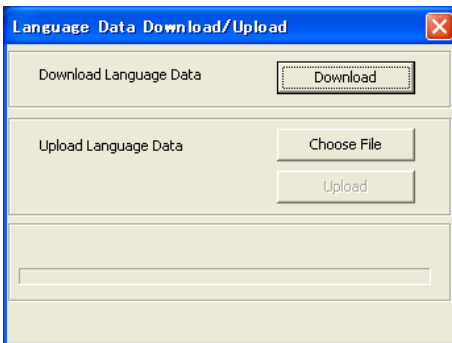
---

## Download/upload of the language data from/to the recorder Language Data Download/Upload (Maintenance – Language Data Download/Upload)

It is possible to download/upload the customized language data from/to the recorder. The default language of the custom language is English.

Select "Language Data Download/Upload" under "Maintenance" from the pop-up menu (☰ page 34).

→ The "Language Data Download/Upload" window will be displayed.



### Download the language data

#### Step 1

Click the [Download] button.

#### Step 2

Designate the directory in which the language data is to be downloaded (default name: RT4Lang.txt), and then click the [Save] button.

→ Download of the language data will start.

### Upload the language data

Click the [Choose File] button, and then select the language data to be uploaded.

#### Step 1

Click the [Upload] button.

→ Upload of the language data will start.

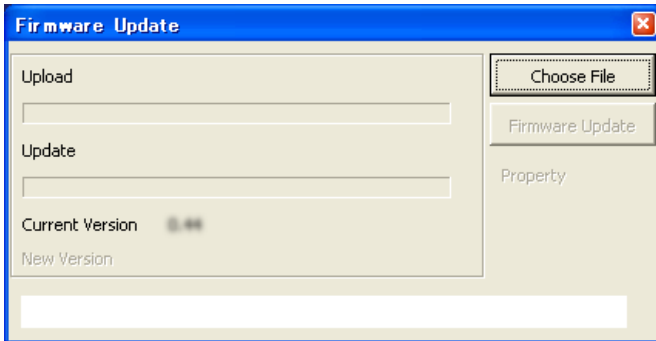
---

#### Notes:

- Available characters for the custom language are as follows. (Some characters may not be displayed.)
    - Basic Latin, Latin Extended-A, Cyrillic
  - Depending on the number of characters, it may fail to upload of the custom language data.
  - The character code of a file to be uploaded shall be UTF-8.
-

## Firmware update of the recorder Firmware Update (Maintenance – Firmware Update)

Select "Firmware Update" under "Maintenance" from the pop-up menu (☰ page 34).



### Step 1

Click the [Choose File] button, and then select the update file.

→ The file information (the file size and the updated time and date) and the version will be displayed.

### Step 2

Click the [Firmware Update] button.

→ Update of the firmware will start.

To validate the updated firmware, reboot the recorder.

---

### Important:

Before rebooting the recorder, make sure that the recorder is not in the process of recording, playback and copying.

---

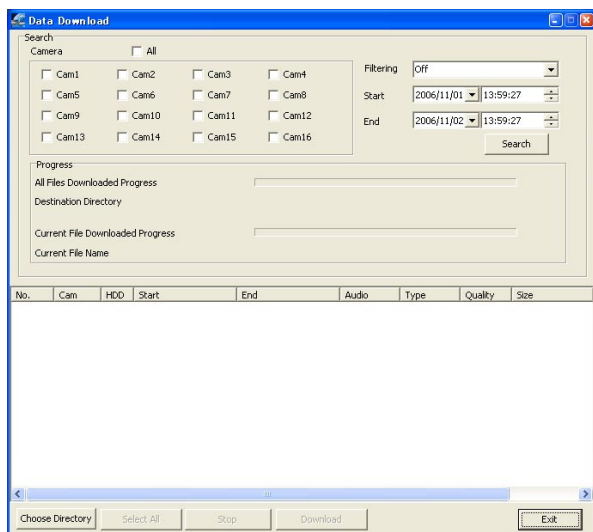
## Download recorded images from the recorder

It is possible to search the desired recorded images by designating the camera channels, recording type, and the start time and the end time of recording.

### Screenshot 1

Click the [Data Download] button (page 8).

→ The "Data Download" window will be displayed.



### Step 1

Set the following search filters.

**Camera:** Select the camera channels.  
To select all the camera channels, check the "All" checkbox.

- Filtering:** Select the recording type.
- **Off:** Searches without filtering
  - **Manual:** Searches for only images recorded by the manual recording
  - **Timer:** Searches for only images recorded by the timer recording
  - **Alarm:** Searches for only images recorded by the alarm recording (triggered by a terminal input, VMD and a command alarm reception)
  - **Terminal:** Searches for only images recorded by the alarm recording triggered by a terminal input
  - **VMD:** Searches for only images recorded by the alarm recording triggered by VMD
  - **Com:** Searches for only images recorded by the alarm recording triggered by a command alarm reception

**Start:** Enter the recording start time and date.

**End:** Enter the recording end time and date.

### Step 2

Click the [Search] button.

---

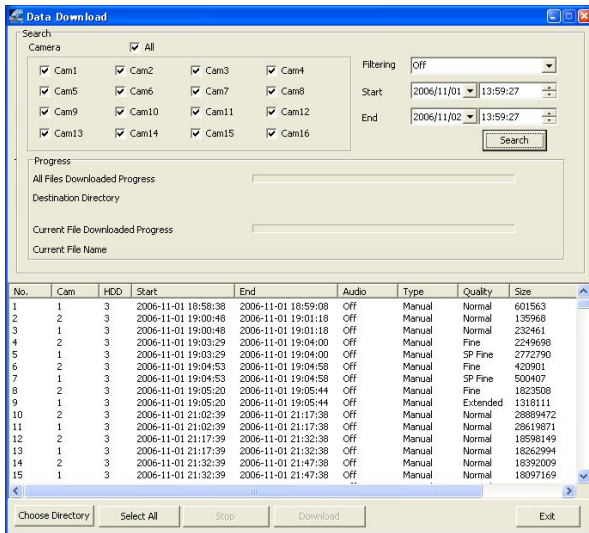
#### Note:

The latest 5 000 recorded images will be displayed in the list form.

---

## Screenshot 2

The result list will be displayed in the "Data Download" window.



## Step 3

Click the [Choose Directory] button, and then designate the directory in which recorded images are to be downloaded.

## Step 4

Select the desired recorded images from the result list. To select all of the listed recorded images, click the [Select All] button.

## Note:

It is possible to select multiple search results by clicking them while pressing the [Ctrl] key on the keyboard.

## Step 5

Click the [Download] button.  
→ Download will start.

## Step 6

To close the "Data Download" window, click the [Exit] button.

## Important:




- The file name of the recorded images to be downloaded cannot be edited.
- It is impossible to download recorded images which is currently being played or copied on the recorder or which is currently being played using the software.

## Remote Talk


It is possible to communicate with the login recorder using audio. To communicate using audio, connect a speaker and a microphone to both the recorder and the PC.

Click the [Remote Talk] button.

→ Remote talk will start.

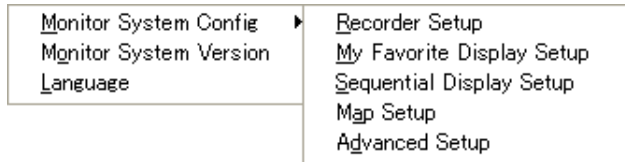
When remote talk starts, the [Remote Talk] button  will change to the [Stop Remote Talk] button . To stop remote talk, click the [Stop Remote Talk] button .

## Important:

- The volume level of remote talk can be adjusted by the "Sound and Audio Device" control panel of Windows.
- When starting the remote talk while playing recorded images on the PC, audio of the remote talk and of playback may be heard simultaneously. Before starting the remote talk, stop playback or mute audio of playback ( page 25).

# Configure the settings of the monitoring software (Monitor System Config)

When clicking the [Monitor System Setup] button, the pop-up menu will be displayed.



## Recorder Setup (Monitor System Config – Recorder Setup)

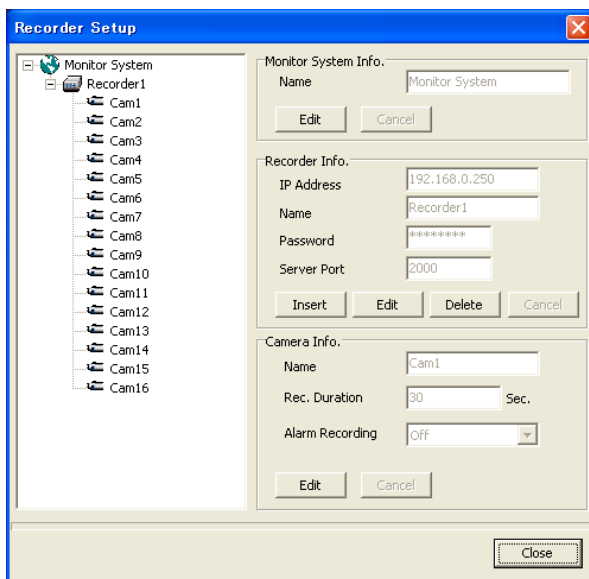
The following operations can be made on the "Recorder Setup" window.

- Registration of the recorder to be operated using this software
- Edit of the recorder information
- Edit of the camera information

### Screenshot 1

Select "Recorder Setup" under "Monitor System Config" from the pop-up menu.

→ The "Recorder Setup" window will be displayed.



### Step 1

Configure the settings on the "Recorder Setup" window. Refer to the following for further information about the setup items on the "Recorder Setup" window.

### Step 2

When completing the configuration, click the [Close] button.

## Setup items

### ■ Tree view of the recorders and the cameras operable using the monitoring system

The names of the recorders and the camera channels will be displayed. When the icon is clicked, the information of the respective device will be displayed on the right of the window.

### ■ Monitor System Info.

The name of the monitoring system will be displayed. Edit the name of the monitoring system. Click the [Edit] button, and then edit the name of the monitoring system. To apply the edited name, click the [OK] button.

### ■ Recorder Info.

Adding/deletion of a recorder to/from the monitoring system and edit of the recorder information can be made.

#### <Add a recorder to the monitoring system>

Refer to page 14 for how to add a recorder to the monitoring system.

#### <Edit the recorder information>

Click the desired recorder icon, and then click the [Edit] button. Edit "IP Address", "Name", "Password" or "Server Port". To apply the edited item, click the [OK] button.

#### <Delete the recorder from the monitoring system>

Click the desired recorder icon, and then click the [Delete] button. Click the [OK] button on the displayed confirmation window to delete the recorder from the monitoring system.

### ■ Camera Info.

Edit of the information and the alarm recording duration of the selected camera can be made. Click the desired camera icon, and then click the [Edit] button. Edit "Name" (up to 12 characters) or "Rec. Duration". To apply the edited item, click the [OK] button. Images recorded by the alarm recording will be stored the "Mpeg" folder in the directory selected in the "Choose Directory" section on the "Advanced Setup" window.

---

#### Important:

- The same camera channel name cannot be applied to two or more camera channels when they are connected to the same recorder.
  - Before editing "Name" of "Camera Info.", make sure that images from the camera channel currently editing are not being displayed.
- 

**Rec. Duration:** Select the recording duration of the alarm recording using this software from among 10 - 999 seconds.

Alarm images recorded by the alarm recording using this software can be saved on the PC. (The alarm recording starts when the recorder detects an alarm occurrence.)

The default is "30" (sec.).

**Alarm Recording:** Select a camera channel to be used for recording when an alarm occurs in the camera channel respective to the currently selected camera icon in the tree view on the "Recorder Setup" window.

The default is "Off".

---

#### Important:

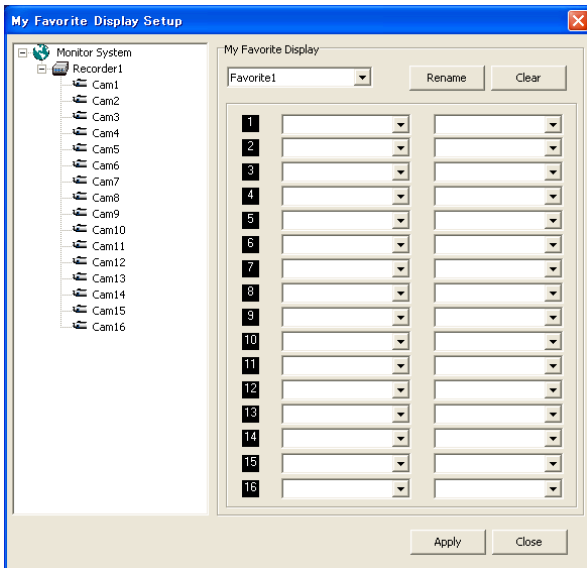
- It is impossible to configure/edit the settings of the current login recorder.
  - The alarm recording will start only when being logged in the recorder.
  - Depending on the timing to start recording images, the first several seconds of the recorded image may not be played on the RT4Viewer.
-

## My Favorite Display Setup (Monitor System Config – My Favorite Display Setup)

Assign the desired camera channel to the desired area as a "favorite". Up to 10 favorites (Favorite1 – Favorite10) can be registered.

### Screenshot 1

Select "My Favorite Display Setup" under "Monitor System Config" from the pop-up menu (page 44).  
→ The "My Favorite Display Setup" window will be displayed.



### Step 1

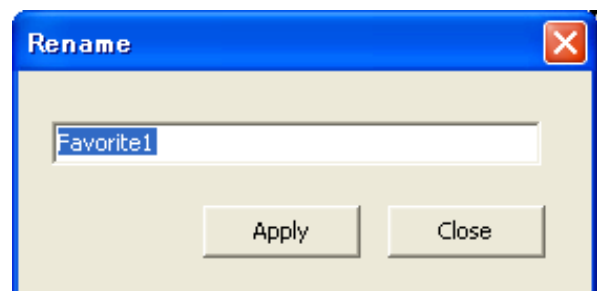
Select the favorite name (Favorite1 – Favorite10) from the pull-down menu.

### Step 2

Select the recorder to access and the desired camera channels to be assigned to each area.  
It is also possible to assign the desired camera channel by dragging the desired camera icon in the tree view onto the desired area icon.

### Step 3

To cancel all of the assignments, click the [Clear] button.  
To edit the name of the favorite, click the [Rename] button.  
→ The "Rename" window will be displayed.  
Enter the new name and click the [Apply] button.



### Step 4

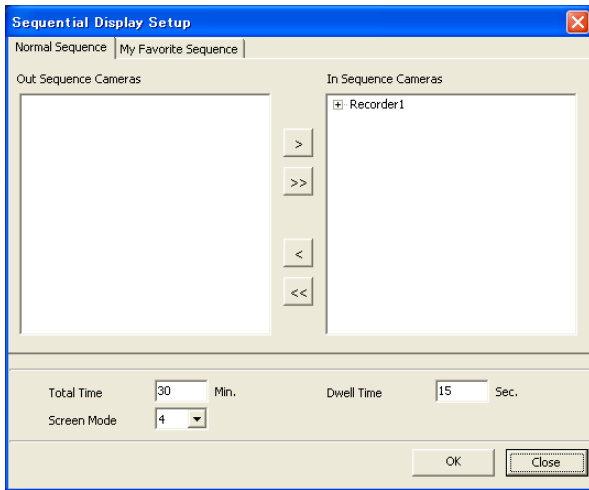
Click the [Apply] button on the "My Favorite Display Setup" window.

## Sequential Display Setup (Monitor System Config – Sequential Display Setup)

Configure the settings relating to the sequential display.

### Screenshot 1

Select "Sequential Display Setup" under "Monitor System Config" from the pop-up menu (page 44).  
→ The "Sequential Display Setup" window will be displayed.



### Step 1

The "Sequential Display Setup" window contains 2 tabs; the "Normal Sequence" tab and the "My Favorite Sequence" tab.

On the "Normal Sequence" tab, the settings for the sequential display using the cameras connected to the registered recorder can be configured.

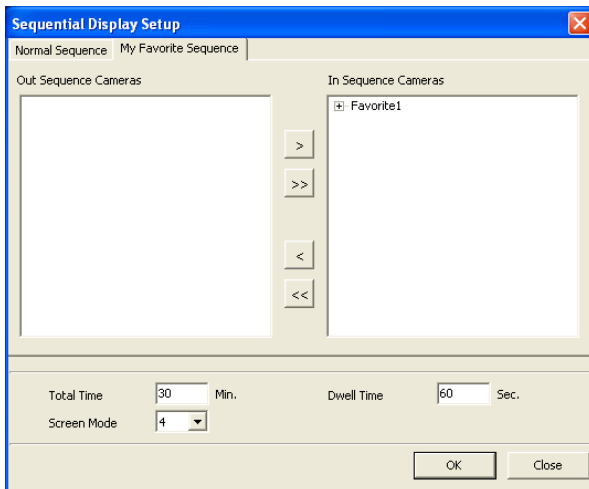
On the "My Favorite Sequence" tab, the settings for the sequential display using the cameras registered as "favorite" can be configured.

"Total time", "Dwell Time" and "Screen Mode" are the common settings to be applied to the both of them.

Refer to the following for further information about the setup items.

### Step 2

When completing the settings, click the [OK] button.



Setup items

■ Out Sequence Cameras

■ In Sequence Cameras

To not use a specified camera for the sequential display, select the camera not to be used, and then click the [<] button. To not use all the cameras for the sequential display, click the [<<] button.

To use the camera in the "Out Sequence Cameras" list for the sequential display, select the camera in the "Out Sequence Cameras" list, and then click the [>] button.

To use all of the cameras in the "Out Sequence Cameras" list for the sequential display, click the [>>] button.

■ Total Time

Set the total time of the sequential display to 0 - 999 minutes. When "0" is entered, the sequential display will not stop until manually stopped.

The default is 30 minutes.

■ Dwell Time

Set the dwell time (interval of switching from a camera channel to the next camera channel) to 15 - 999 seconds.

The default is 60 seconds.

■ Screen Mode

Select a screen mode to be used for the sequential display from 1, 4, 9 and 16.

The default is 4 (4-screen).

Map Setup (Monitoring System Config – Map Setup)

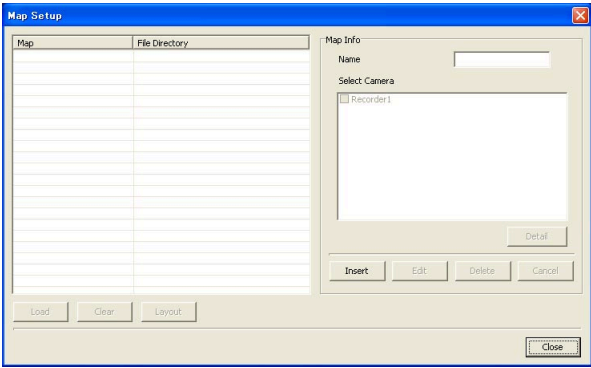
Set a map (diagram of the camera location arrangement) used for the map display.

When remotely operating the recorder, the map offers a visual way of understanding the camera locations.

Screenshot 1

Select "Map Setup" under "Monitor System Config" from the pop-up menu (☞ page 44).

→ The "Map Setup" window will be displayed.



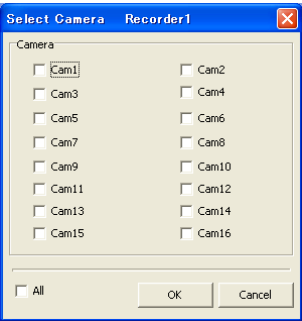
Step 1

Click the [Insert] button and enter a name in the "Name" box.

Then, select the cameras to be displayed on the map.

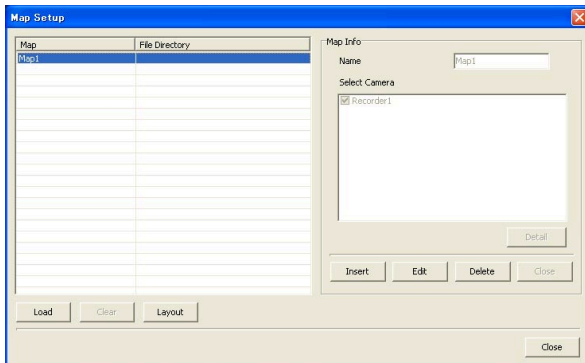
When the checkbox of the recorder name is checked, all of the cameras connected to the recorder will be selected.

To select independently, select them on the following window to be displayed when the [Detail] button is clicked. After selecting the cameras to be displayed on the map, click the [OK] button.



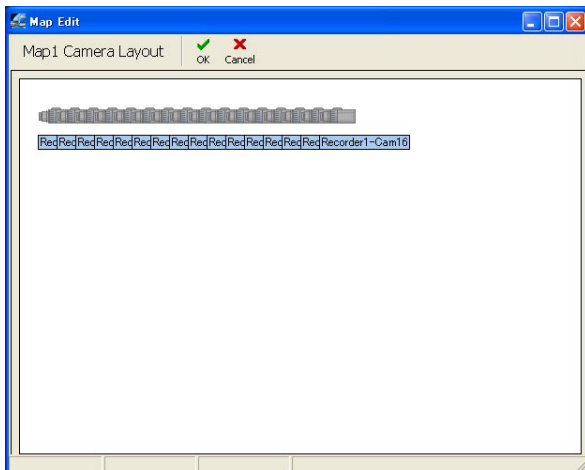
### Screenshot 2

The map will be created.



### Screenshot 3

The "Map Edit" window will be displayed.



### Step 2

Select the created map displayed in the "Map" column, and then click the [Load] button to apply the background image.

For example, a schematic image of inside a bank, a supermarket, etc.

The background image should be a bitmap image (bmp) or a jpeg image (jpeg).

To cancel the applied background image, click the [Clear] button.

### Step 3

Click the [Layout] button.

### Step 4

Locate each of the camera icons onto the actual positions on the background image.

### Step 5

Click the [OK] button.

→ The "Map Edit" window will close.

### Step 6

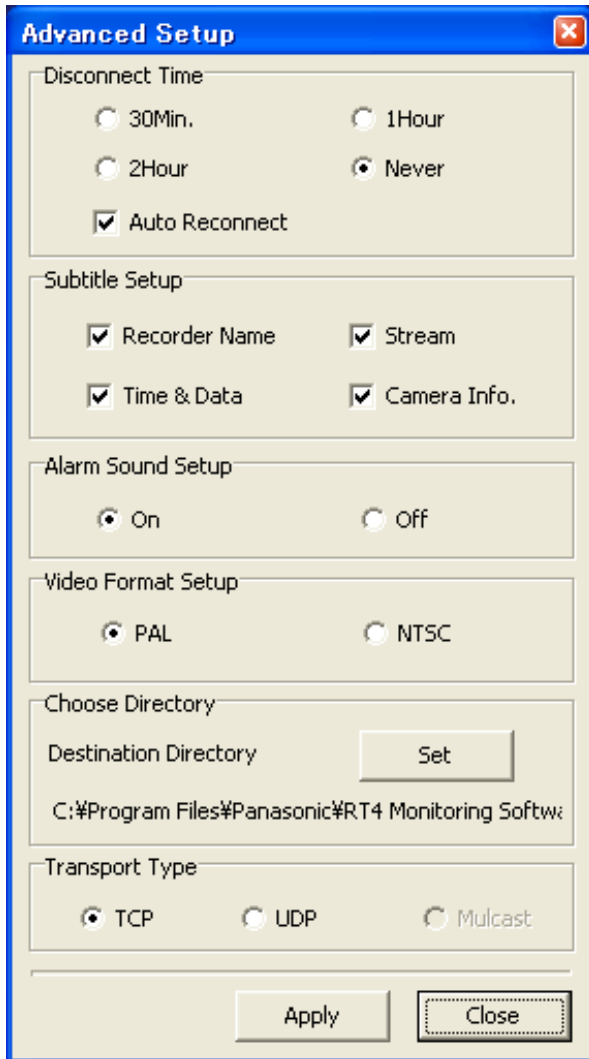
Click the [Close] button on the "Map Setup" window.

## Advanced Setup (Monitoring System Config – Advanced Setup)

Configure the advanced setup on the "Advanced Setup" window.

### Screenshot 1

Select "Advanced Setup" under "Monitor System Config" from the pop-up menu (see page 44).  
→ The "Advanced Setup" window will be displayed.



### Step 1

Configure the following setup items.

#### ■ Disconnect Time

The live image will be disconnected when no operation of the PC has been made for the selected duration.

The following are available for "Wait Time".

30Min, 1Hour, 2Hours, Never

When the "Auto Reconnect" checkbox is checked, the disconnected live image will be automatically connected again within 5 minutes even when the recorder is disconnected due to a connection error, etc.

**Default:** Never (Auto Reconnect ON)

#### ■ Subtitle Setup

Information to be displayed on the monitor can be selected.

Check the desired checkbox to display the respective information.

**Time & Date:** When displaying live images, the current time and date will be displayed. When displaying recorded images, the recording time and date will be displayed.

**Stream:** The speed of image transmission will be displayed.

**Recorder Name:** The recorder name will be displayed.

**Camera Info.:** The camera name and the set image quality will be displayed.

**Default:** All checkboxes are checked

#### ■ Alarm Sound Setup

Select "On" or "Off" to determine whether or not to sound the alarm buzzer (will be heard from the PC speaker) when the software receives an alarm notification.

**Default:** On

### ■ Video Format Setup

Select a video format.

### ■ Choose Directory

Designate the directory in which downloaded recorded images or captured images are to be stored.

### ■ Transport Type

Select "TCP" or "UDP" for the communications protocol.

**Default:** TCP

The following is added to "■ Transport Type".

---

#### **Important:**

When selecting "UDP", only one recorder can be connected to the PC.

---

### **Step 2**

When completing the settings, click the [Apply] button.

## Monitor System Version

Select "Monitor System Version" from the pop-up menu (☞ page 44).

The current version of the monitoring software will be displayed.

## Language

Select "Language" from the pop-up menu (☞ page 44).

(The current display language has been selected during the process of the installation.)

Select the display language from the following.

Chinese, Custom, English, Japanese

The default language of the custom language is English.

It is possible to customize the characters to be displayed by editing the "Cst.ini" file in the "RT4 Monitoring Software" folder. (The directory path is "C:\Program Files\Panasonic\RT4 Monitoring Software".)

---

#### **Notes:**

- Depending on the language setting of Windows, the customized characters may not be displayed correctly. Do not edit any files other than the "Cst.ini" file.
  - When editing of the file is complete, save it with UTF-8 character code.
-

# Playback downloaded recorded images using the RT4Viewer

It is possible to search and play the downloaded recorded images.

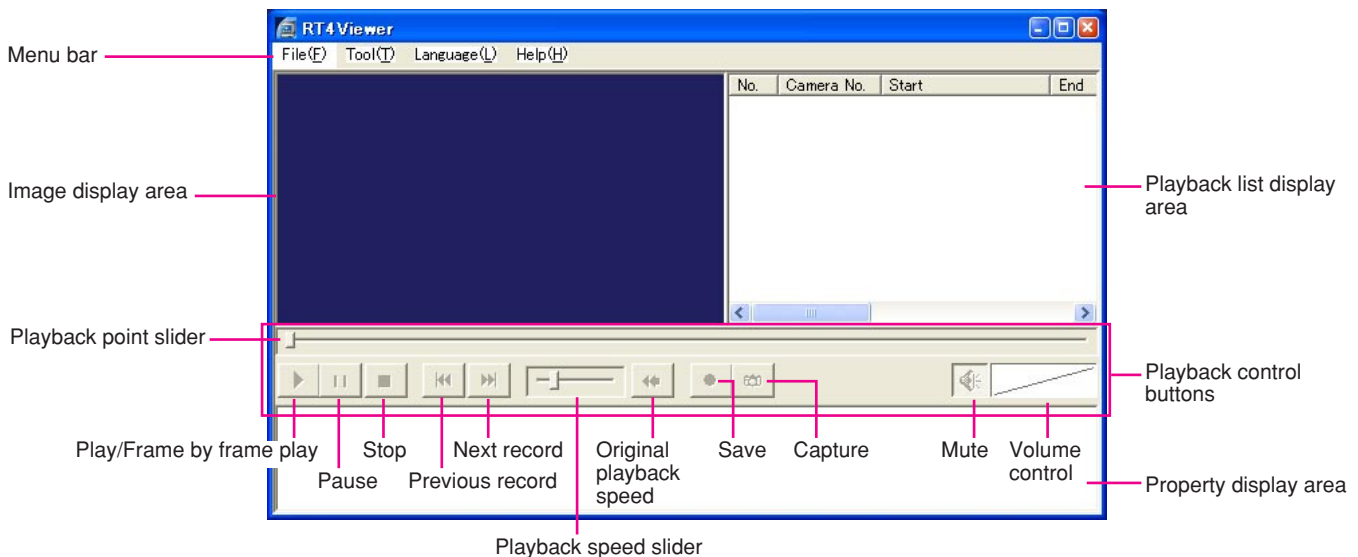
## Start the RT4Viewer

Select "RT4Viewer.exe" from the "Start" menu ("Start" - "All Programs" - "Panasonic" - "RT4 Monitoring Software" - "RT4Viewer") or click the [RT4Viewer] button (☞ page 8).

→ The RT4Viewer will start and the "RT4Viewer" window will be displayed.

### Notes:

- It is possible to copy the viewer software together with recorded images when copying recorded images from the recorder to the connected external recording device. For further information, refer to the installation guide of the recorder.
- When using the downloaded viewer software, "Search File(S)" under "File" on the menu bar is unavailable.



### ■ File

The following menus are under the "File(F)" menu.

**Open File(O):** Open a file (downloaded recorded image). (☞ page 54)

**Search File(S):** Search for a file (downloaded recorded image). When "Search File" is selected, the "Search File" window will be displayed. (☞ page 55)

**Full Screen(W):** Downloaded recorded images will be played on a full screen.

**Exit(X):** Exit the RT4Viewer.

### ■ Tool

The following menu is under the "Tool(T)" menu.

**Alteration Detection(A):** Check whether the downloaded recorded image selected in the playback list display area has been altered or not.

### ■ Language

Select the display language from the following.

Japanese, English, Simplified Chinese, Custom

The default language of the custom language is English.

## ■ Help

The current version of the RT4Viewer will be displayed.

## ■ Image display area

Downloaded recorded images will be played in this area.

It is possible to temporarily change color of text displayed in the image display area by right-clicking on the text and select the desired color from displayed pop-up menu.

## ■ Playback list display area

Downloaded recorded images will be displayed in the list form. The following information will be displayed. Camera channel, start time, end time, event type, image quality, with or without audio, MAC address, altered or not altered

## ■ Playback control buttons

**Playback point slider:** The current playback point will be indicated by the pointer. It is possible to designate a playback point by clicking the desired playback point.

**Play/Frame by frame play button:** Playback will start. When this button is clicked during pausing, the next frame will be displayed.

**Pause button:** Playback will pause.

**Stop button:** Playback will stop.

**Previous record button:** Start playback of the previous record.

**Next record button:** Start playback of the next record.

**Playback speed slider:** Adjust the playback speed.

**Original playback speed button:** Reset the adjusted playback speed to the original playback speed.

**Save button:** Save the recorded image currently being played.

**Capture button:** Capture the image currently being displayed as a still picture.

**Mute button:** Mute audio.

**Volume control slider:** Click to adjust the audio volume.

## ■ Property display area

The following information of the downloaded recorded image currently being played will be displayed.

Camera channel, start time, end time, image quality, event type, playback speed

---

## Notes:

- When using the viewer software copied on a DVD-R or a CD-R, the "Mpeg" folder or the "Capture" folder will be created on the desktop by clicking the [Save] button or the [Capture] button respectively.
  - When playing a file consisted of only I-frames, adjustment of the playback speed is unavailable.
-

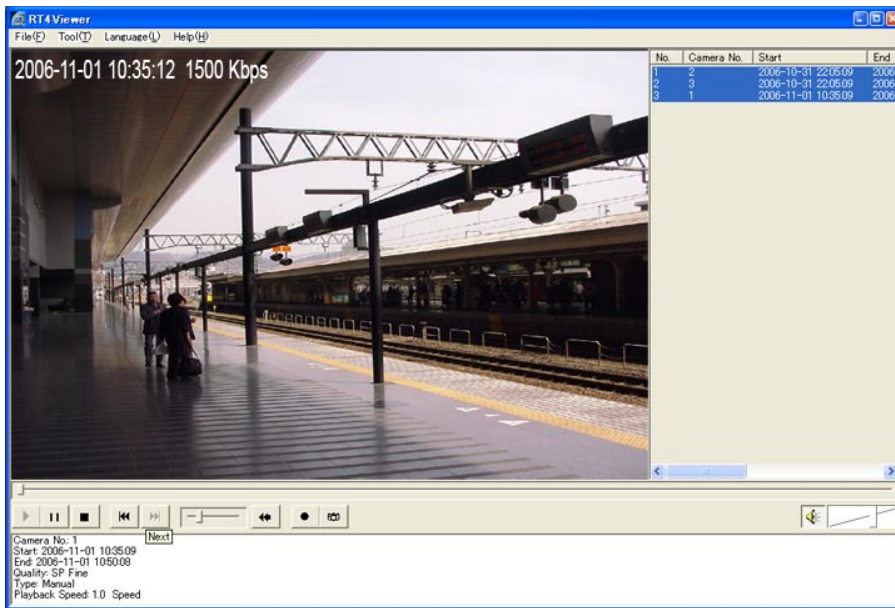
## Playback downloaded recorded images

Select "Open File(O)" under "File(F)" on the menu bar.

→ The file selection window will be displayed.

Select the desired file to be played and click the [Play] button. Playback of the selected file will start in the image display area.

Control the playback image using the playback control buttons. Refer to page 52 for how to control playback images using the playback control buttons. To display on a full screen, select "Full Screen" under "File" on the menu bar or double-click on the image currently being played. To return to the previous size, double-click on the image currently being played again.



## Search and play

### Important:

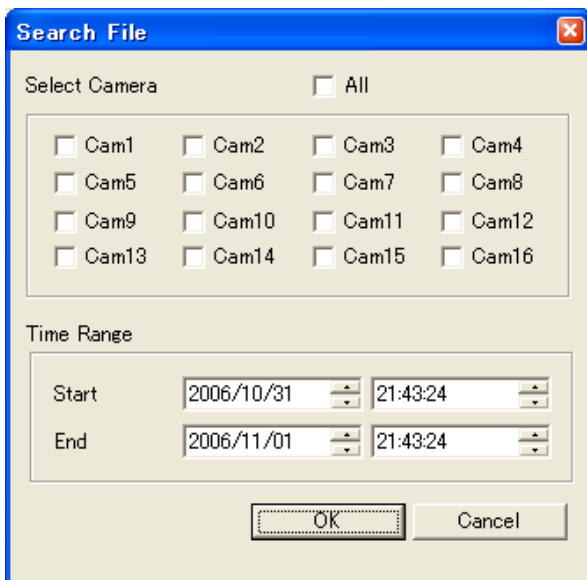
Only the images in the "Mpeg" folder in the directory selected in the "Choose Directory" section on the "Advanced Setup" window of the monitoring software can be searched.

(When the monitoring software is started, the "Advanced Setup" window can be displayed by selecting "Advanced Setup" under "Monitor System Config" from the pop-up menu displayed when the [System Setup] button is clicked.)

### Screenshot 1

Select "Search File(S)" under "File(F)" on the menu bar.

→ The "Search File" window will be displayed.



### Step 1

Set the desired search filter.

#### ■ Select Channel

Check the checkbox of the desired camera channel to be searched.

To select all the camera channels, check the "All" checkbox.

#### ■ Time Range

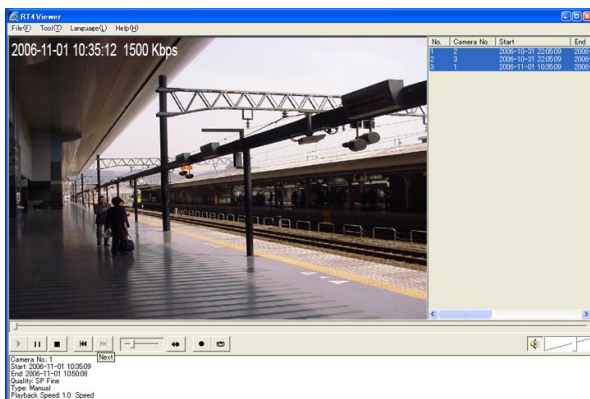
Designate the time range to be searched by designating the recording start time and the end time.

### Step 2

Click the [OK] button.

### Screenshot 2

The search result will be displayed in the playback list display area.



### Step 3

Select the desired recorded image from the list, and then click the play button.

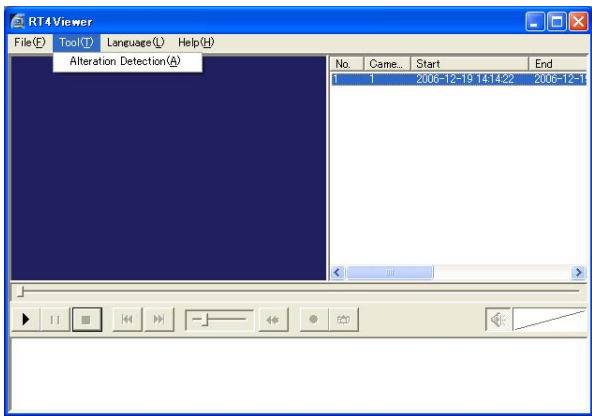
→ Playback will start.

# Alteration check

Check whether the downloaded recorded image selected in the playback list display area has been altered or not.

## Screenshot 1

Open the desired image to be checked. (☞ page 54)



## Step 1

Stop playback and select "Alteration Detection(A)" under "Tool(T)" on the menu bar.

→ The confirmation window will be displayed.

## Step 2

Click the [OK] button.

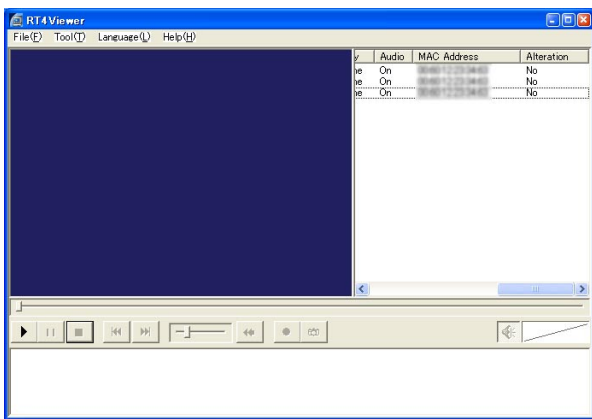
→ Alteration check will start. When completing the alteration check, the message window will be displayed.

## Step 3

Click the [OK] button.

## Screenshot 2

The result of the alteration check will be displayed in the "Alteration" column of the playback list display area.



## Step 4

Check the result.

Yes: Altered  
No: Not altered  
-: Undefined

## Notes:

- When other file is opened, the result will be cleared.
- The result of alteration check will be "Yes" for files created by saving the image currently being displayed on the PC (☞ page 24), using the alarm recording function (☞ page 45), or saving the recorded image currently being played (☞ page 53).

# Troubleshooting

Before asking for repairs, check the symptoms with the following table.

Contact your dealer if a problem cannot be solved even after checking and trying the solution or a problem is not described below, and when having a problem with installations.

Symptom	Cause/solution	Reference pages
Cannot establish the connection Cannot configure the settings Cannot operate the recorder	▶ <ul style="list-style-type: none"> <li>Is the LAN cable firmly connected to the network port? Confirm that the cord is firmly connected.</li> </ul>	—
	▶ <ul style="list-style-type: none"> <li>Is the connection indicator of the 10BASE-T/-100BASE-TX port lit? When it is not lit, connection to a LAN is not established or a network is not working correctly. Confirm that the connection indicator of the 10BASE-T/100BASE-TX port is lit. Refer to a system administrator if it is not lit.</li> </ul>	Refer to page 13 in the installation guide.
	▶ <ul style="list-style-type: none"> <li>Is the valid IP address set? Refer to a system administrator for further information.</li> </ul>	45
	▶ <ul style="list-style-type: none"> <li>Is the same IP address provided to other devices? Refer to a system administrator for further information.</li> </ul>	—
	▶ <ul style="list-style-type: none"> <li>Are there contradictions between the address and the network subnet to be accessed? When this unit and the client PC are in the same subnet, are the IP addresses of this unit and the client PC set in same subnet? When accessing this unit in the same subnet, entering the address of this unit in the "Don't Use Proxy For These Addresses" box is recommended.</li> </ul>	—
The image refresh is very slow, or not be refreshed.	▶ <ul style="list-style-type: none"> <li>Depending on the data size being transmitted, it may have difficulties in displaying images from a specified camera channel.</li> </ul>	—
	▶ <ul style="list-style-type: none"> <li>If the PC in use that does not meet the system requirements, it may cause problems such as slow imaging or the software becomes inoperable.</li> </ul>	5
	▶ <ul style="list-style-type: none"> <li>If the network traffic is heavy or the bandwidth is narrow, the image refresh may become slow.</li> </ul>	—

Symptom		Cause/solution	Reference pages
Audio is interrupted or repeated	▶	<ul style="list-style-type: none"> <li>Depending on the network traffic, audio may be interrupted or repeated.</li> </ul>	—
	▶	<ul style="list-style-type: none"> <li>If the PC in use that does not meet the system requirements, audio may be interrupted.</li> </ul>	5
Cannot use the system control buttons	▶	<ul style="list-style-type: none"> <li>Check the login status.</li> </ul>	18
Cannot play the downloaded image file	▶	<ul style="list-style-type: none"> <li>To play the downloaded image file, use the RT4Viewer.</li> </ul>	52
Cannot play recorded images on the recorder	▶	<ul style="list-style-type: none"> <li>The network traffic may be heavy or the bandwidth is getting narrower.</li> </ul>	—
Noise appears in the images when playing on RT4Viewer.	▶	<ul style="list-style-type: none"> <li>Close all applications except RT4Viewer.</li> </ul>	—
It takes some time to start playback after the search.	▶	<ul style="list-style-type: none"> <li>The hard disk in which the images to be played are stored may be in the stand-by mode. It may take some time for the hard disk to resume from the stand-by mode and start playback. This is not malfunction.</li> </ul>	—

### Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste.

For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority

for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

### For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

### Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

#### For U.S., Canadian and Puerto Rican fields:

**Panasonic System Solutions Company,**  
Unit Company of Panasonic Corporation of North America

**Security Systems**  
[www.panasonic.com/security](http://www.panasonic.com/security)  
For customer support, call 1.877.733.3689

**Executive Office:** Three Panasonic Way 2H-2, Secaucus, New Jersey 07094

**Zone Office**

**Eastern:** Three Panasonic Way, Secaucus, New Jersey 07094

**Central:** 1707 N. Randal Road, Elgin, IL 60123

**Southern:** 1225 Northbrook Parkway, Suwanee, GA 30024

**Western:** 6550 Katella Ave., Cypress, CA 90630

**Panasonic Canada Inc.**

5770 Ambler Drive, Mississauga,  
Ontario, L4W 2T3 Canada (905)624-5010  
<http://www.panasonic.ca>

**Panasonic Sales Company**

Division of Panasonic Puerto Rico Inc.  
San Gabriel Industrial Park 65th Infantry Ave. KM. 9.5 Carolina  
P.R. 00985(809)750-4300

#### For European and other fields:

**Matsushita Electric Industrial Co., Ltd.**

Osaka, Japan

<http://panasonic.net>